This is a digital copy of a book that was preserved for generations on library shelves before it was carefully scanned by Google as part of a project to make the world's books discoverable online.

It has survived long enough for the copyright to expire and the book to enter the public domain. A public domain book is one that was never subject to copyright or whose legal copyright term has expired. Whether a book is in the public domain may vary country to country. Public domain books are our gateways to the past, representing a wealth of history, culture and knowledge that's often difficult to discover.

Marks, notations and other marginalia present in the original volume will appear in this file - a reminder of this book's long journey from the publisher to a library and finally to you.

Usage guidelines

Google is proud to partner with libraries to digitize public domain materials and make them widely accessible. Public domain books belong to the public and we are merely their custodians. Nevertheless, this work is expensive, so in order to keep providing this resource, we have taken steps to prevent abuse by commercial parties, including placing technical restrictions on automated querying.

We also ask that you:

+ *Make non-commercial use of the files* We designed Google Book Search for use by individuals, and we request that you use these files for personal, non-commercial purposes.

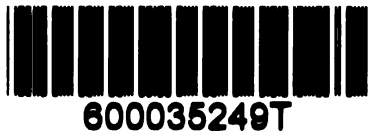
+ *Refrain from automated querying* Do not send automated queries of any sort to Google's system: If you are conducting research on machine translation, optical character recognition or other areas where access to a large amount of text is helpful, please contact us. We encourage the use of public domain materials for these purposes and may be able to help.

+ *Maintain attribution* The Google "watermark" you see on each file is essential for informing people about this project and helping them find additional materials through Google Book Search. Please do not remove it.

+ *Keep it legal* Whatever your use, remember that you are responsible for ensuring that what you are doing is legal. Do not assume that just because we believe a book is in the public domain for users in the United States, that the work is also in the public domain for users in other countries. Whether a book is still in copyright varies from country to country, and we can't offer guidance on whether any specific use of any specific book is allowed. Please do not assume that a book's appearance in Google Book Search means it can be used in any manner anywhere in the world. Copyright infringement liability can be quite severe.

About Google Book Search

Google's mission is to organize the world's information and to make it universally accessible and useful. Google Book Search helps readers discover the world's books while helping authors and publishers reach new audiences. You can search through the full text of this book on the web at `http://books.google.com/`


600035249T

15 & 16 VICTORIÆ, Cap. 83. Sec. XXXII.

CHRONOLOGICAL INDEX

OF

PATENTS APPLIED FOR AND PATENTS GRANTED,

For the Year 1855.

Printed and Published by Order of the Honourable the Commissioners of Patents,

UNDER THE

ACT of 15 & 16 VICTORIÆ, Cap. 83. Sec. XXXII.

BY BENNET WOODCROFT,

SUPERINTENDENT OF SPECIFICATIONS, INDEXES, &c.

LONDON:

PRINTED BY GEORGE EDWARD EYRE AND WILLIAM SPOTTISWOODE,

PRINTERS TO THE QUEEN'S MOST EXCELLENT MAJESTY.

PUBLISHED AT THE GREAT SEAL PATENT OFFICE,

SOUTHAMPTON BUILDINGS, HOLBORN.

1856.

CHRONOLOGICAL INDEX

OF

PATENTS APPLIED FOR AND PATENTS GRANTED.

FRASCARA. 1st January 1855.	1. EPAMINONDA FRASCARA, of Alessandria, in Piedmont, now of 12, Alfred Place, Bedford Square, for an invention for—"A voltaic pile, and of the application of its electric fluid, either to the decomposition of water or to enable the gases to replace the steam power actually in use."—*Complete specification.* *Stopped at fiat.*
LEWIS. 1st January 1855.	2. WALTER WILLIAM LEWIS, of the Parish of Hanley Castle, in the County of Worcester, Gentleman, for an invention for—"An improvement in the manufacture of charcoal." *Provisional protection only.*
SEGUIN. 1st January 1855.	3. JOSEPH SEGUIN, of Paris, in France, Civil Engineer, for an invention for—"Improvements in obtaining motive-power by the expansion of air, steam, and other fluids." *Letters Patent sealed.*
CRAM. CRANE. 1st January 1855.	4. GEORGE CRAM, of the City of Chester, Iron ship Builder, and JOHN JACKSON CRANE, of the same place, Painter, for an invention for—"An improved composition applicable to the coating of ships' bottoms and other useful purposes." *Letters Patent sealed.*
GILES. 1st January 1855.	5. STEPHEN GILES, of Caledonian Road, Islington, in the County of Middlesex, Engineer, for an invention for—"An improved ratchet brace."—*Letters Patent sealed.*
BRITTEN. 2nd January 1855.	6. BASHLEY BRITTEN, of Anerley, in the County of Surrey, Gentleman, for an invention for—"A cheap and convenient method and apparatus for obtaining a copy of writings, drawings, or tracings, in ink." *Letters Patent sealed.*
ROULLION. 2nd January 1855.	7. ANTOINE ROULLION, Gentleman, of Paris, in the French Empire, for an invention for—"Certain improvements in the manufacture of soap." *Stopped at fiat.*
DORMOY. 2nd January 1855.	8. HENRI LOUIS DORMOY, Merchant, of Paris, in the French Empire, for an invention for—"Certain improvements in manufacturing and twisting silk, cotton-wool, and other fibrous substances."—*A communication.* *Letters Patent sealed.*
ARNOLD. 2nd January 1855.	9. JOSEPH ARNOLD, of Tamworth, in the County of Stafford, for an invention for—"A new mode of ornamenting bricks and other moulded articles for building purposes." *Letters Patent sealed.*
FINCKEN. 2nd January 1855.	10. CLAUDE JULES FINCKEN, Glass merchant, of No. 36, in the Rue de l'Echiquier, at Paris, in the Empire of France, for an invention for—"Preserving without loss of heat all windows, glass roofs, false roofs &c., from the effects of condensation and damp, and also from the effects of external smoke, soot, and dust." *Letters Patent sealed.*
PEACOCK. 2nd January 1855.	11. GEORGE PEACOCK, of Gracechurch Street, in the City of London, Ship owner, for an invention for—"Improvements in constructing propellers for ships and other vessels." *Letters Patent sealed.*
HARVEY. PEARCE. 3rd January 1855.	12. JOHN KIER HARVEY, and DANIEL PEARCE, of London, in the County of Middlesex, for an invention for—"A calendar inkstand." *Letters Patent sealed.*
DEHAYNIN. 3rd January 1855.	13. FELIX GABRIEL CÉLESTIN DEHAYNIN, of Paris, in the Empire of France, and of 32, Essex Street, Strand, London, for an invention for—"Improvements in the purification of hydrogen gas." *Letters Patent sealed.*

FONTAINE. 3rd January 1855.	**14.** HIPPOLYTE FONTAINE, Engineer, of Marseilles, in the Empire of France, and of 16, Castle Street, Holborn (City) London, for an invention for—"Improvements in engravers' presses." *Letters Patent sealed.*
LIPPMANN. 3rd January 1855.	**15.** ISAIE LIPPMANN, of No. 4, Rue Geoffroy St. Hilaire, Paris, in the Kingdom of France, Tanner, for an invention for—"An improved machine for splitting or sawing the skins of calves, oxen, cows, horses and other animals." *Stopped at fiat.*
KENDALL. GENT. 3rd January 1855.	**16.** WILLIAM KENDALL, and GEORGE GENT, of Salford, near Manchester, in the County of Lancaster, machinists, for an invention for—"Improvements in machinery or apparatus for cutting metals either solid or tubular." *Letters Patent sealed.*
GODDARD. 3rd January 1855.	**17.** SAMUEL ASPINWALL GODDARD, of Birmingham, in the county of Warwick, Merchant and Manufacturer, for an invention for—"A new or improved fire-arm, a portion of which is applicable to ordnance." *Letters Patent sealed.*
JOHNSON. 3rd January 1855.	**18.** JOHN HENRY JOHNSON, of 47, Lincoln's Inn Fields, in the county of Middlesex, and of Glasgow, North Britain, Gentleman, for an invention for—"An improved system or mode of coating iron with copper."—*A communication. Letters Patent sealed.*
GASKELL. HOLCROFT. 3rd January 1855.	**19.** JACOB GASKELL, of the City of Manchester, Button manufacturer, and GEORGE HOLCROFT, of the same place, Consulting Engineer, for an invention for—"Improvements in the manufacture of mortar and cement." *Provisional protection only.*
HUSTWICK. BEAN. 3rd January 1855.	**20.** CHARLES HUSTWICK, and WILLIAM BEAN, of the Town or Borough of Kingston-upon-Hull, in the County of the same Town or Borough, Carriage and Harness manufacturers, for an invention for—"Improvements in buffers and springs for railway carriages and other purposes." *Letters Patent sealed.*
STOCKER. DARLING. 3rd January 1855.	**21.** ALEXANDER SOUTHWOOD STOCKER, and SAMUEL DARLING, both of No. 11, the Poultry, Cheapside, in the City of London, Manufacturers, for an invention for—"Certain improvements in the manufacture of bottles, pots, jars, tubes and other receptacles, part of which improvements are applicable to various other purposes for commercial and domestic use." *Letters Patent sealed.*
VENABLES. MANN. 3rd January 1855.	**22.** JOHN VENABLES, and ARTHUR MANN, both of Burslem, in the County of Stafford, Earthenware manufacturers, for an invention for—"Improvements in producing raised figures or ornaments upon the surfaces of articles made of metal, pottery and earthenware, glass, papier-mâché, and other materials." *Letters Patent sealed.*
VENABLES. MANN. 3rd January 1855.	**23.** JOHN VENABLES, and ARTHUR MANN, both of Burslem, in the County of Stafford, Earthenware manufacturers, for an invention for—"Improvements in producing figures or ornaments in articles made of clay or plastic materials." *Letters Patent sealed.*
RAMMELL. 3rd January 1855.	**24.** THOMAS WEBSTER RAMMELL, of Trafalgar Square, in the County of Middlesex, for an invention for—"Improvements in boiler and other furnaces." *Provisional protection only.*
MUIR. 3rd January 1855.	**25.** GEORGE WALKER MUIR, of Glasgow, in the County of Lanark, Scotland, for an invention for—"Improvements in warming and ventilating."—*Letters Patent sealed.*
WATT. 4th January 1855.	**26.** CHARLES WATT, of Victoria Wharf, Regent's Park Basin, Chemist, for an invention for—"An improvement in preparing coffee." *Provisional protection only.*
MARTIN. 5th January 1855.	**27.** LOUIS JACQUES MARTIN, of Paris, in the Empire of France, Engineer, for an invention for—"Improvements in the composition of colours for printing and dyeing, and in the application of such colours." *Letters Patent sealed.*
BOWDEN. 5th January 1855.	**28.** GEORGE BOWDEN, Bookbinder, of No. 1, Little Queen Street, High Holborn, in the County of Middlesex, for an invention for —"Improvements in the manufacture of united adhesive book headband and register ribbons." *Letters Patent sealed.*
BULMER. BAILEY. 5th January 1855.	**29.** WILLIAM HENRY BULMER, of Queen's Head, near Halifax, Machine maker, and WILLIAM BAILEY, of Halifax, Engineer, both in the County of York, for an invention for—"Improvements in machinery or apparatus for combing wool, cotton, and other fibrous substances." *Letters Patent sealed.*

GIRARD. 5th January 1855.

30. LOUIS DOMINIQUE GIRARD, Civil Engineer, of Paris, in the French Empire, for an invention for—"Certain improvements in applying steam, fluids, and gases, for the purpose of obtaining motive-power, parts of which are applicable for compressing and rarefying air and gases, and for raising liquids." *Letters Patent sealed.*

ASHWORTH. STOTT. 5th January 1855.

31. ROBERT ASHWORTH, of Rochdale, in the County of Lancaster, Engineer, and SAMUEL STOTT, also of Rochdale, in the County of Lancaster, Cotton Spinner, for an invention for—"Improvements in machinery for preparing, spinning and doubling fibrous substances." *Letters Patent sealed.*

LIVESEY. 5th January 1855.

32. JOHN LIVESEY, of No. 20, Kensington Gore, in the County of Middlesex, Gentleman, for an invention for—"Improvements in printing and in the materials and apparatus connected therewith."—*A communication.* *Letters Patent sealed.*

PRINCE. 5th January 1855.

33. FREDERIC PRINCE, of No. 3, South Parade, Chelsea, in the County of Middlesex, for an invention for—"Improvements in cartridges for fire-arms." *Provisional protection only.*

COOK. 6th January 1855.

34. BENJAMIN COOK, of Green Street, Birmingham, in the County of Warwick, Metallic bedstead and tube manufacturer, for an invention for—"Certain improved apparatus for separating filings of iron or steel from other metallic filings." *Letters Patent sealed.*

JOHNSON. 6th January 1855.

35. JOHN HENRY JOHNSON, of 47, Lincoln's Inn Fields, in the County of Middlesex, and of Glasgow, North Britain, Gentleman, for an invention for—"Improvements in machinery or apparatus for effecting agricultural operations, parts of the said improvements being applicable for the obtainment of motive-power for general purposes."—*A communication.* *Letters Patent sealed.*

DELABARRE. BONNET. 6th January 1855.

36. TOUSSAINT DELABARRE, and ANGÉLINE BONNET, both of Paris, in the Empire of France, for an invention for—"Improvements in the preservation of substances for food." *Stopped at fiat.*

RÜTTRE. 6th January 1855.

37. JEAN BAPTISTE EDOUARD RÜTTRE, of Paris, Empire of France, manufacturer, for an invention for—"Improvements in the treatment of rags and other goods formed partly of vegetable fibres, in order to separate the vegetable fibres from them and obtain the wool in its pure state." *Letters Patent sealed.*

JOY. 6th January 1855.

38. DAVID JOY, of Worcester, in the County of Worcester, Engineer, for an invention for—"An improvement in pistons." *Provisional protection only.*

SCOTT. 6th January 1855.

39. JOHN SCOTT, of Sunderland, in the County of Durham, Blacksmith, for an invention for—"Improvements in the construction of anchors."—*Letters Patent sealed.*

COTTAM. COTTAM. 6th January 1855.

40. GEORGE HALLEN COTTAM, and HENRY RICHARD COTTAM, of St. Pancras Iron works, Old St. Pancras Road, for an invention for—"An improvement in the manufacture of iron bedsteads." *Letters Patent sealed; no specification filed.*

EDWARDS. FRASI. 6th January 1855.

41. CHARLES JOHN EDWARDS, Junior, of Great Sutton Street, Clerkenwell, in the County of Middlesex, Mill band manufacturer, and FREDERICK FRASI, of Tavistock Terrace, Holloway, in the same County, Engineer, for an invention for—"An improved manufacture of bearings for carriage axles and shafts of machinery in general." *Letters Patent sealed.*

CRAIG. 8th January 1855.

42. WILLIAM GRINDLEY CRAIG, of Gorton, near Manchester, in the County of Lancaster, Engineer, for an invention for—"Improvements in railway buffer cases and rams." *Letters Patent sealed.*

HUGGINS. 8th January 1855.

43. JOHN HUGGINS, of Birmingham, in the County of Warwick, Machinist, for an invention for—"A new or improved machine for the manufacture of lint." *Letters Patent sealed.*

PLAYER. 8th January 1855.

44. JOSEPH PLAYER, of 2, Winchester Buildings, in the City of London, Civil Engineer, for an invention for—"Improvements in the construction of furnaces for the prevention of smoke." *Stopped at fiat.*

M'CALL. 8th January 1855.

45. ROBERT M'CALL, of Pallas Kenry, in the County of Limerick, Ireland, for an invention for—"Certain improvements in the manufacture of iron and steel." *Letters Patent sealed.*

FONTAINEMOREAU. 8th January 1855.

46. PETER ARMAND LE COMTE DE FONTAINEMOREAU, of 4, South Street, Finsbury, London, and 39, Rue de l'Echiquier, Paris, Patent Agent, for an invention for—"An improved mode of obtaining alcohol."—*A communication.*
Letters Patent sealed.

HAY. HAY. 8th January 1855.

47. WILLIAM HAY, and JAMES HAY, of Glasgow, in the County of Lanark, North Britain, Engineers, for an invention for—"Improvements in engines for obtaining motive-power." *Provisional protection only.*

NAGLES. 8th January 1855.

48. ALBERT NAGLES, of Ghent, in the Kingdom of Belgium, Chemist, for an invention for—"Improvements in machinery or apparatus for cleaning the surfaces of woven fabrics, and also for distending or spreading the same either before or after or during the processes of bleaching, printing, or other similar operations."
Provisional protection only.

BURY. 8th January 1855.

49. ISAAC BURY, of Manchester, in the County of Lancaster, Embosser and Finisher, for an invention for—"A certain improvement in embossing Orleans cloth or other similar fabrics, commonly called 'stuff goods.'" *Provisional protection only.*

SHIPLEY. 9th January 1855.

50. SAMUEL SMITH SHIPLEY, of Stoke Newington, in the County of Middlesex, for an invention for—"Improvements in machinery and apparatus for washing or cleansing." *Letters Patent sealed.*

HAYES. 9th January 1855.

51. EDWARD HAYES, of Stony Stratford, in the County of Bucks, Engineer, for an invention for—"Improvements in apparatus for feeding thrashing machines."
Letters Patent sealed.

HODGSON. 9th January 1855.

52. THOMAS HODGSON, of Morley's Hotel, in the City of Westminster, Architectural modeller, for an invention for—"An improved construction of paddle-box life boat." *Provisional protection only.*

OFFORD. 9th January 1855.

53. JOSEPH OFFORD, of Wells Street, Oxford Street, in the County of Middlesex, Coach Builder, for an invention for—"Improvements in the construction of carriages."
Letters Patent sealed.

GUESDRON. 9th January 1855.

54. ANDRÉ GASPARD GUESDRON, of Paris, in the Empire of France, and of 32, Essex Street, Strand, London, for an invention for—"A furniture table which may be used for different purposes." *Letters Patent sealed.*

THOMAS. 9th January 1855.

55. PIERRE EMILE THOMAS, of Paris, Empire of France, Chemical Engineer, for an invention for—"Improvements in the treatment of tissues and other goods formed of wool mixed with other textile fibres, in order to obtain the wool from them."
Stopped at second reference.

AMIES. 9th January 1855.

56. NATHANIEL JONES AMIES, of Manchester, in the County of Lancaster, Smallware manufacturer, for an invention for—"Certain improvements in winding or balling thread or yarn, and in the machinery or apparatus connected therewith."
Letters Patent sealed.

HALL. DALGETY. LEDGER. 9th January 1855.

57. HENRY JOHN HALL, of Charlton, in the County of Kent, Commander in the Royal Navy, and ALEXANDER DALGETY, and EDWARD LEDGER, both of Deptford, in the County of Kent, Engineers, for an invention for—"Improvements in apparatus for propelling, guiding, or manœuvring ships or boats." *Provisional protection only.*

BOW. 9th January 1855.

58. EBENEZER BOW, of Glasgow, in the County of Lanark, North Britain, Coal merchant, for an invention for—"Improvements in the manufacture or production of 'Blackening' for foundry purposes." *Letters Patent sealed.*

MAJOR. 9th January 1855.

59. WILLIAM MAJOR, of Copenhagen, in the Kingdom of Denmark, Engineer, for an invention for—"Improvements in the construction and arrangement of screw propellers." *Provisional protection only.*

LAMB. FAWCETT. 9th January 1855.

60. JOHN LAMB, Machinist, and FRANCIS BEST FAWCETT, Carpet manufacturer, both of Kidderminster, in the County of Worcester, for an invention for—"Improvements in certain parts of the machinery employed in production of various fabrics in which bobbins are used." *Provisional protection only.*

WILSON. 10th January 1855.

61. THOMAS WILSON, of Birmingham, in the County of Warwick, Engineer, for an invention for—"An improvement or improvements in the manufacture of bands used in the construction of small arms." *Letters Patent sealed.*

PREDAVAL. 10th January 1855.	**62.** BARTHOLOMEW PREDAVAL, of 106, Great Russell Street, Bedford Square, in the County of Middlesex, Civil Engineer, for an invention for "Improving the production and manufacture of pulp for the making of paper." *Letters Patent sealed.*
HENLEY. 10th January 1855.	**63.** WILLIAM THOMAS HENLEY, of St. John Street Road, London, Electric Telegraph engineer and machinist, for an invention for—"Improvements in steam boilers or generators and in apparatus in connection therewith."—*Letters Patent sealed.*
BOOTH. 10th January 1855.	**64.** EDWARD BOOTH, of Gorton, in the County of Lancaster, Gum manufacturer, for an invention for—"Certain improvements in the mode and machinery for dressing, starching, and finishing textile and other fabrics and materials."—*Letters Patent sealed.*
FULLER. 10th January 1855.	**65.** WILLIAM COLES FULLER, of Bucklersbury, Cheapside, in the City of London, India-rubber spring manufacturer, for an invention for—"Improvements in the construction and adaptation of india-rubber springs." *Letters Patent sealed.*
BESSEMER. 10th January 1855.	**66.** HENRY BESSEMER, of Queen Street Place, New Cannon Street, in the County of Middlesex, Engineer, for an invention for—"Improvements in the manufacture of iron and steel." *Letters Patent sealed.*
BESSEMER. 10th January 1855.	**67.** HENRY BESSEMER, of Queen Street Place, New Cannon Street, in the County of Middlesex, for an invention for—"Improvements in the construction and manufacture of ordnance." *Letters Patent sealed.*
LEHUGEUR. UTTINGER. 10th January 1855.	**68.** LOUIS PIERRE LEHUGEUR, Mechanic, and MICHEL UTTINGER, Gentleman, both of St. Denis, near Paris, in the Empire of France, for an invention for—"Improvements applicable to machinery for printing fabrics." *Letters Patent sealed.*
GEDGE. 11th January 1855.	**69.** JOHN GEDGE, of No. 4, Wellington Street South, Strand, in the County of Middlesex, Patent agent, for an invention for—"Improvements in the construction of metallic flooring supports for floors, walls, or partitions of buildings."—*A communication from M. Nicolas Gervis, of Paris, in the Empire of France.* *Provisional protection only.*
HERVÉ. 11th January 1855.	**70.** JACQUES LOUIS HERVÉ, of Paris, in the Empire of France, No. 9, Rue de l'Eperon, Householder, for an invention for—"Improvements in preserving meat and fish." *Provisional protection only.*
NORTON. 11th January 1855.	**71.** JOHN NORTON, of Dublin, in the County of Dublin, Ireland, Esquire, for an invention for—"Improvements in draining land." *Letters Patent sealed.*
ROBERTSON. 11th January 1855.	**72.** ALEXANDER ROBERTSON, of Upper Holloway, in the County of Middlesex, Engineer, for an invention for—"A new manufacture of packages for dry goods." *Letters Patent sealed.*
HALL. 11th January 1855.	**73.** EDWARD HALL, of Dartford, in the County of Kent, Engineer, for an invention for—"Improvements in the manufacture of gunpowder." *Letters Patent sealed.*
OXLAND. 11th January 1855.	**74.** ROBERT OXLAND, of Plymouth, in the County of Devon, Sugar refiner, for an invention for—"Improvements in the manufacture and revivification of animal charcoal." *Letters Patent sealed.*
TOWNSEND. 11th January 1855.	**75.** ELMER TOWNSEND, of the State of Massachusetts, of the United States of America, for an invention for—"New and useful improvements in machinery for sewing cloth, leather, or other material."—*A communication from Alfred Swingle of the aforesaid State.* *Letters Patent sealed.*
WOOD. 11th January 1855.	**76.** JAMES WOOD, of 30, Barbican, in the City of London, Printer, for an invention for—"An improved process for lettering and ornamenting glass, which the inventor terms Hyalotypy." *Letters Patent sealed.*
THOMAS. 11th January 1855.	**77.** WILLIAM LYNALL THOMAS, of Anderton, in the County of Devon, Gentleman, for an invention for—"Improvements in projectiles and gun-wads." *Stopped at fiat.*
DAVIDS. 11th January 1855.	**78.** SMITH WILLIAM DAVIDS, of Carnarvon, North Wales, Slate agent, for an invention for—"Certain improvements in elongating chandeliers and gaseliers." *Provisional protection only.*

BELLFORD. 12th January 1855.	**79.** AUGUSTE EDOUARD LORADOUX BELLFORD, of 32, Essex Street, Strand, London, Patent agent, for an invention for—" Improvements in tanning."—*A communication from Mess" Rene de Kercado Molac, and Jean Daniel Friedel, both of Strasbourg, Empire of France. Complete specification.* *Letters Patent sealed.*
ONIONS. 12th January 1855.	**80.** JOHN ONIONS, of 44, Wellington Place, Blackfriars Road, in the Borough of Southwark, Iron founder, for an invention for—" Certain improvements in the construction of pipes and tubes for the use of smoking tobacco and cigars." *Stopped at fiat.*
HUNT. 12th January 1855.	**81.** WILLIAM HUNT, of Tipton, in the County of Stafford, Chemist, for an invention for—" Improvements in the manufacture of iron." *Provisional protection only.*
HODGSON. 12th January 1855.	**82.** JOSEPH RAY HODGSON, of Sunderland, Carver and Gilder, for an invention for—" Improvements in the construction of anchors." *Letters Patent sealed.*
GUYARD. 12th January 1855.	**83.** FRANÇOIS VICTOR GUYARD, Engineer Captain, of the Town of Gravelines, in the French Empire, for an invention for—" Certain improvements in the electro telegraphic communications." *Letters Patent sealed.*
MILES. 12th January 1855.	**84.** EZRA MILES, of Stoke Hammond, Bucks, Civil Engineer, for an invention for —" An improved coupling joint or connection for tubing or other purposes." *Letters Patent sealed.*
TURNER. 12th January 1855.	**85.** CHRISTOPHER TURNER, of Burnley, in the County of Lancaster, Weaver, for an invention for—" Certain improvements in power-looms for weaving." *Letters Patent sealed.*
HARRISON. ODDIE. 12th January 1855.	**86.** JOSEPH HARRISON, and JOHN ODDIE, both of Blackburn, in the County of Lancaster, Machinists, for an invention for—" Improvements in machines for sizing, drying, and otherwise preparing yarns or threads, for weaving." *Provisional protection only.*
PRESTON. 12th January 1855.	**87.** FRANCIS PRESTON, of the City of Manchester, Machinist, for an invention for —" Improvements in ordnance, and in projectiles for ordnance and small arms." *Letters Patent sealed.*
BARNINGHAM. 12th January 1855.	**88.** WILLIAM BARNINGHAM, of Salford, in the County of Lancaster, Iron manufacturer, for an invention for—" Improvements in connecting the rails of railways." *Letters Patent sealed.*
SEITHEN. LICHTENSTEIN. 12th January 1855.	**89.** ANTON SEITHEN, of Coblenz, in Prussia, Cork manufacturer, and JOSEPH H. LICHTENSTEIN, of Berlin, in Prussia, for an invention for—" Improvements in machinery or apparatus for cutting and shaping cork." *Stopped at second reference.*
BROOMAN. 12th January 1855.	**90.** RICHARD ARCHIBALD BROOMAN, of 166, Fleet Street, in the City of London, Patent agent, for an invention for—" Certain means of devulcanizing india-rubber and other similar gums, or of treating such gums after having been vulcanized."—*A communication.* *Letters Patent sealed.*
GADOL. 12th January 1855.	**91.** PETER NICHOLAS GADOL, of Bermondsey, in the County of Surrey, Tanner, for an invention for—" An improved process to be employed in tanning." *Provisional protection only.*
BRITTEN. 13th January 1855.	**92.** JOHN BRITTEN, of Birmingham, in the County of Warwick, Engineer, for an invention for—" An improvement or improvements in the means of filtering liquids." *Provisional protection only.*
NEVILL. 13th January 1855.	**93.** WILLIAM HENRY NEVILL, of Llanelly, in the County of Carmarthen, Copper smelter, for an invention for—" Improvements in the construction of reverberatory furnaces for the collection and condensation of volatile substances." *Letters Patent sealed.*
GRAHAM. 13th January 1855.	**94.** JOHN GRAHAM, of Hartshead Print works, near Staleybridge, in the County of Lancaster, Calico printer, for an invention for—" Improvements in fixing certain colours in or upon yarns and textile fabrics." *Letters Patent sealed.*
WARNECKE. 13th January 1855.	**95.** GUSTAV WARNECKE, of Frankfort on the Maine, Merchant, for an invention for—" Improvements in preserving vegetables and fruits." *Letters Patent sealed.*

CLAUDOT. 13th January 1855.	96. JOSEPH CLAUDOT, of Paris, France, Architect, for an invention for—"An improved stucco." *Letters Patent sealed.*
HOLLINS. 13th January 1855.	97. MICHAEL DAINTRY HOLLINS, of Stoke-upon-Trent, in the County of Stafford, Gentleman, for an invention for—"Improvements in slip kilns for drying clay." *Provisional protection only.*
HAYWARD. 13th January 1855.	98. EDWARD LAMBERT HAYWARD, of the Blackfriars Road, in the County of Surrey, Manufacturing ironmonger, for an invention for—"Improvements in kitchen ranges." *Letters Patent sealed.*
PEARCE. 13th January 1855.	99. JOHN CHARLES PEARCE, of the Bowling Iron works, in the County of York, Engineer, for an invention for—"Improvements in machinery or apparatus for the manufacture and working of iron and other metals." *Letters Patent sealed.*
OUTRIDGE. 13th January 1855.	100. JOSEPH EDLYN OUTRIDGE, of Constantinople, in the employ of the Ottoman Government, but now residing at No. 134, Blackfriars Road, in the County of Middlesex, for an invention for—"Improvements in transmitting motive-power." *Letters Patent sealed.*
GREENWOOD. 13th January 1855.	101. JOHN GREENWOOD, of Irwell Springs, near Bacup, in the County of Lancaster, Turkey red Dyer, for an invention for—"Certain improvements in sizing, stiffening, and finishing textile fabrics or materials." *Letters Patent sealed.*
BURKE. 15th January 1855.	102. FRANCIS BURKE, Gentleman, of Woodlands, Montserrat, British West Indies, and at present residing in London, for an invention for—"Improvements in and apparatus for obtaining from the plantain, banana, aloe, penguin, and other vegetable substances, fibres applicable to various manufacturing purposes." *Stopped at fiat.*
FROST. 15th January 1855.	103. WILLIAM TOPLIS FROST, of Shottle, near Belper, in the County of Derby, Gentleman, for an invention for—"Improvements in machinery for cleaning knives." *Provisional protection only.*
OMMANNEY. 15th January 1855.	104. HENRY MORTLOCK OMMANNEY, of the City of Chester, Esquire, for an invention for—"An improvement in the manufacture of shot, shells, hollow shot, and other projectiles." *Stopped at fiat.*
LARK. 15th January 1855.	105. JAMES PETER LARK, of Nine Elms Lane, Vauxhall, in the County of Surrey, Foreman to Messrs. Francis, Brothers, of the same place, Cement manufacturer, for an invention for—"Improvements in effecting the combustion of fuel and the consumption of smoke in steam boiler and other furnaces." *Letters Patent sealed.*
RILEY. 15th January 1855.	106. GEORGE RILEY, of No. 12, Portland Place North, Clapham Road, in the County of Surrey, for an invention for—"An improved false bottom for brewers', distillers', and vinegar makers' mash tubs." *Letters Patent sealed.*
HAYNES. 15th January 1855.	107. EDWARD HAYNES, Junior, of Bromley, in the County of Middlesex, Engineer, for an invention for—"A smoke consuming furnace." *Letters Patent sealed.*
STEFANI. 16th January 1855.	108. MARC TOUSSAINT STEFANI, of Paris, Empire of France, Gentleman, for an invention for—"Improvements in fire-arms." *Provisional protection only.*
CHOISNET. GUIJOLA. 16th January 1855.	109. URBAN CHARLES CHOISNET, of Birmingham, in the County of Warwick, Lamp maker, and CHARLES EMILE GUIJOLA, of Birmingham aforesaid, Lamp maker, for an invention for—"Improvements in moderateur lamps." *Letters Patent sealed.*
ADKINS. 16th January 1855.	110. HENRY ADKINS, of Edgbaston, near Birmingham, in the County of Warwick, Manufacturer, for an invention for—"An improvement or improvements in bleaching or decolourizing oily and fatty bodies." *Letters Patent sealed.*
YEOMAN. 16th January 1855.	111. JAMES YEOMAN, of Walworth, in the County of Surrey, Millwright and Engineer, for an invention for—"Improvements in self feeding furnaces." *Stopped at fiat.*
JACKSON. 16th January 1855.	112. GEORGE JACKSON, of Manchester, in the County of Lancaster, Decorator, for an invention for—"Certain improvements in the construction of tents." *Letters Patent sealed.*

SIMKIN.
16th January 1855.

113. JAMES SIMKIN, of Bolton-le-Moors, in the County of Lancaster, Gunmaker, for an invention for "Improvements in rifles and other fire-arms."—*Letters Patent sealed.*

NORTON.
16th January 1855.

114. JAMES LEE NORTON, of Holland Street, Blackfriars, in the County of Surrey, for an invention for—"Improvements in recovering the wool from fabrics composed of wool, or wool in connection with cotton or other vegetable substance."
Letters Patent sealed.

SAUNDERS.
16th January 1855.

115. JONATHAN SAUNDERS, of St. John's Wood, in the County of Middlesex, for an invention for—"An improvement in the manufacture of axles and shafting."
Letters Patent sealed.

OUDIN.
16th January 1855.

116. JEAN ANTOINE FRANÇOIS VICTOR OUDIN, of Mons, Department of Seine and Marne, in the Empire of France, and of 4, South Street, Finsbury, London, Priest, for an invention for—"A new liquid for preventing sea sickness."
Letters Patent sealed.

MARY'ON.
16th January 1855.

117. ROBERT JAMES MARY'ON, Gentleman, of 37, York Road, Lambeth, in the County of Surrey, for an invention for—"Improvements in the construction of steam-engines, which consists of a better means of mechanism for effecting the transmission of and convertion of action of motion for working and applying steam or other equivalent motive-power." *Provisional protection only.*

GARROOD.
17th January 1855.

118. GEORGE WILLIAM GARROOD, of Burnham, Essex, for an invention for—"An improved apparatus to be used in conjunction with windlasses on ships, cranes on land, and with other machinery for raising or lowering weights, for the purpose of guiding and controlling the action thereof." *Letters Patent sealed.*

LOMAS.
17th January 1855.

119. SAMUEL LOMAS, of the City of Manchester, Machinist, for an invention for —"Improvements in machinery for winding and doubling silk."
Provisional protection only.

HORTON.
17th January 1855.

120. JOSHUA HORTON, of Birmingham, in the County of Warwick, Manufacturer, for an invention for—"An improvement or improvements in packing or storing gun-powder." *Letters Patent sealed.*

QUERTINIER.
17th January 1855.

121. AMBROISE QUERTINIER, of Charleroi, in the Kingdom of Belgium, Merchant, for an invention for—"An improvement in glass furnaces." *Letters Patent sealed.*

COLLES.
17th January 1855.

122. ALEXANDER COLLES, of Millmount, in the County of Kilkenny, Ireland, Marble manufacturer, for an invention for "Improvements in sawing marble and similar materials."—*A communication.* *Provisional protection only.*

DAVIDSON.
17th January 1855.

123. DAVID DAVIDSON, of Meiklewood by Stirling, North Britain, Captain in the Honourable East India Company's service, for an invention for "Improvements in apparatus for pointing ordnance and restoring the aim of the piece, either by day or night, when it is once obtained." *Letters Patent sealed.*

WEBSTER.
17th January 1855.

124. JAMES WEBSTER, of Collingham, in the County of York, Corn miller, for an invention for—"Improvements in the application of motive-power."
Letters Patent sealed.

HIGGINS.
WHITWORTH.
17th January 1855.

125. JAMES HIGGINS, of Salford, in the County of Lancaster, Machine maker, and THOMAS SCHOFIELD WHITWORTH, of the same place, Mechanic, for an invention for—"Improvements in moulding for casting shot, shells, and other articles."
Letters Patent sealed; no specification filed.

SLACK.
17th January 1855.

126. JOHN SLACK, of Manchester, in the County of Lancaster, Manager, for an invention for—"Improvements in the manufacture of velvets, velveteens, cords, and other woven fabrics in which floated threads or loops are formed for the purpose of being cut." *Provisional protection only.*

HALL.
17th January 1855.

127. EDWARD HALL, of Salford, in the County of Lancaster, Gentleman, for an invention for—"Improvements in combining metallic wires with textile materials or fabrics for forming 'wire ribbon.'" *Letters Patent sealed.*

FLOWER.
DIXON.
17th January 1855.

128. LAMOROCK FLOWER, of No. 37, Great Russell Street, Bloomsbury, in the County of Middlesex, and GEORGE AUGUSTUS DIXON, of Cobham Hall, Stratford, in the County of Essex, for an invention for—"Improvements in machinery or apparatus for sifting and cleansing." *Stopped at fiat.*

DUMERY. 18th January 1855.	**129.** CONSTANT JOUFFROY DUMERY, of Paris, in the Empire of France, and of 32, Essex Street, Strand, London, for an invention for—" Improvements in smoke preventing apparatus." *Letters Patent sealed.*
SURGEY. 18th January 1855.	**130.** JOHN BAILEY SURGEY, of Lidlington Place, St. Pancras, in the County of Middlesex, for an invention for—" Certain improvements in carriages." *Provisional protection only.*
BLACKWOOD. GORDON. 18th January 1855.	**131.** THOMAS BLACKWOOD, and ANDREW GORDON, both of Paisley, in the County of Renfrew, North Britain, Engineers, for an invention for—" Improvements in motive-power engines." *Stopped at fiat.*
LANCASTER. 18th January 1855.	**132.** WILLIAM LANCASTER, of Preston, in the County of Lancaster, Cotton manufacturer, for an invention for—" Improvements in 'temples' employed in the manufacture of textile fabrics." *Stopped at fiat.*
LEIGH. 18th January 1855.	**133.** EVAN LEIGH, of Collyhurst, in the County of Lancaster, Machine maker, for an invention for—" Certain improvements in machinery or apparatus for preparing cotton and other fibrous substances for spinning." *Letters Patent sealed.*
PARTRIDGE. BROOME. 18th January 1855.	**134.** HENRY PARTRIDGE, and JOHN BENJAMIN BROOME, of Birmingham, in the County of Warwick, Gun manufacturers, for an invention for—" Certain improvements in the manufacture of wrought iron ordnance." *Provisional protection only.*
JOHNSON. 18th January 1855.	**135.** WILLIAM JOHNSON, of 47, Lincoln's Inn Fields, in the County of Middlesex, and of Glasgow, in the County of Lanark, North Britain, Civil Engineer, for an invention for—" Improvements in the application, treatment, cleansing, and dyeing of fibrous substances and products."—*A communication.* *Letters Patent sealed.*
PIDDING. 18th January 1855.	**136.** WILLIAM PIDDING, of Putney, in the County of Surrey, for an invention for —" Improvements in the manufacture of combs for the human hair."—*Stopped at fiat.*
PIDDING. 18th January 1855.	**137.** WILLIAM PIDDING, of Putney, in the County of Surrey, for an invention for —" Improvements in the manufacture of building materials and in the machinery or apparatus for making the same." *Stopped at fiat.*
PIDDING. 18th January 1855.	**138.** WILLIAM PIDDING, of Putney, in the County of Surrey, for an invention for —" Improvements in coverings for the feet of bipeds and quadrupeds."—*Stopped at fiat.*
LAWRIE. 18th January 1855.	**139.** JAMES GRAY LAWRIE, of Glasgow, Engineer, for an invention for—" Improvements in the sights of fire-arms and cannon." *Provisional protection only.*
NYILASSY. 18th January 1855.	**140.** MICHAEL JOSEF NYILASSY, of 13, Chandos Street, Covent Garden, in the County of Middlesex, for an invention for—" Improvements in wind musical instruments in the nature of the bugle and the trumpet." *Provisional protection only.*
BELL. BLACK. 18th January 1855.	**141.** SAMUEL ALEXANDER BELL, and JOHN BLACK, of Bow Lane, Cheapside, in the City of London, Vesta light manufacturers, for an invention for—" An improvement in the manufacture of congreve or lucifer matches."—*Provisional protection only.*
STANSBURY. 19th January 1855.	**142.** CHARLES FREDERICK STANSBURY, of the firm of Nourse & Co., of Nos. 17 & 18, Cornhill, London, American and General Patent agents, for an invention for—" Improvements in the construction and operation of self acting railway breaks."—*A communication from James J. M'Comb, of New Orleans, United States of America.* *Letters Patent sealed.*
PARIS. 19th January 1855.	**143.** STANISLAUS JOSEPH PARIS, of the City of Manchester, Embosser, for an invention for—" Improvements in machinery for embossing."—*Letters Patent sealed.*
MARTIN. HYAMS. 19th January 1855.	**144.** ROBERT MARTIN, of High Street, Tottenham, in the County of Middlesex, and JACOB HYAMS, of Union Street, Bishopsgate, for an invention for—" Improvements in goloshes or overshoes." *Letters Patent sealed.*
ISAACS. 19th January 1855.	**145.** SAMUEL ISAACS, of 22, Newman Street, Oxford Street, in the County of Middlesex, for an invention for—" Improvements in the manufacture of artificial coral." *Letters Patent sealed*

CLARKE.
19th January 1855.

146. JOHN IRWIN CLARKE, of Windsor Court, Monkwell Street, in the County of Middlesex, for an invention for—"Improvements in applying colour to the edges of leather gloves."—*A communication from Francis Moat, of Grenoble.*
Letters Patent sealed.

ABBOTT.
HOLLAND.
19th January 1855.

147. JOSEPH ABBOTT, of 77½, Smallbrooke Street, Manufacturer, and HENRY HOLLAND, of 21, Steelhouse Lane, Manufacturer, both of Birmingham, for an invention for—"Certain improvements in preventing the sinking of vessels at sea or on rivers, and in raising of sunken vessels." *Stopped at fiat.*

FONTAINEMOREAU.
19th January 1855.

148. PETER ARMAND LE COMTE DE FONTAINEMOREAU, of 4, South Street, Finsbury, London, and 39, Rue de l'Echiquier, Paris, Patent agent, for an invention for—"Improvements in obtaining electro motive-power."—*A communication.*
Letters Patent sealed.

HILL.
19th January 1855.

149. THOMAS COËNDOZ HILL, of Stanton Lacy, in the County of Shropshire, Gentleman, for an invention for—"An improvement in drain pipes and tiles."
Letters Patent sealed.

LAURENT-PRÉFONTAINE.
19th January 1855.

150. PIERRE CHARLES PAUL LAURENT-PRÉFONTAINE, Gentleman, of Paris, in the French Empire, for an invention for—"An improved engine called hydraulic sling, for raising water and other liquids, or heavy bodies." *Stopped at fiat.*

SMITH.
PHILLIPS.
19th January 1855.

151. WILLIAM SMITH, and THOMAS PHILLIPS, of Snow Hill, in the City of London, Gas engineers, for an invention for—"Improvements in cocks or taps, and in balls or floats to be used therewith." *Letters Patent sealed.*

DELCAMP.
19th January 1855.

152. MAURICE DELCAMP, of Paris, in the Empire of France, and of 32, Essex Street, Strand, London, for an invention for—"An improved apparatus for advertizing, or for the exhibition of placards." *Stopped at fiat.*

RENNIE.
19th January 1855.

153. MATTHEW BOULTON RENNIE, of No. 21, Whitehall Place, in the County of Middlesex, for an invention for—"Improvements in preserving animal and vegetable substances for food."—*A communication. Letters Patent sealed; no specification filed.*

VAN DEN BERGH.
20th January 1855.

154. CHARLES VAN DEN BERGH, of Lacken by Brussels, in the Kingdom of Belgium, Proprietor, for an invention for—"Improvements in rotatory steam-engines."—*Complete specification.* *Letters Patent sealed.*

DOUGLAS.
CARSWELL.
20th January 1855.

155. WILLIAM DOUGLAS, and JOHN CARSWELL, of the City of Manchester, in the County of Lancaster, Dyers, for an invention for—"Improvements in dyeing woven fabrics." *Letters Patent sealed.*

SALAVILLE.
20th January 1855.

156. SCIPION SALAVILLE, of Paris, France, Proprietor, for an invention for—"An improved method of preserving and purifying grain and seed."—*Letters Patent sealed.*

PEARCE.
20th January 1855.

157. WILLIAM GORE PEARCE, of Grosvenor Street, Camberwell, in the County of Surrey, late a Captain in the Army of Spain, for an invention for—"An improved method of projecting chain or coupled shot or shell from double and single barrel guns, and causing them to explode simultaneously, by electricity and other means."
Provisional protection only.

BELLFORD.
20th January 1855.

158. AUGUSTE EDOUARD LORADOUX BELLFORD, of 32, Essex Street, Strand, London, Patent agent, for an invention for—"Improvements in paddle wheels for propelling vessels in water."—*A communication from John Upham Wallis, of Dansville, in the United States of America.* *Letters Patent sealed.*

MARGUERITTE.
20th January 1855.

159. FRÉDÉRIC MARGUERITTE, Chemist, of Paris, in the Empire of France, and of 32, Essex Street, Strand, London, for an invention for—"Improvements in the manufacture of soda and of potash." *Provisional protection only.*

EISENMANN.
20th January 1855.

160. WILLIAM EISENMANN, Merchant, of Berlin, for an invention for—"A new construction for a hearth, applicable to all firing constructions or fire-places."
Letters Patent sealed.

JOHNSON.
20th January 1855.

161. JOHN HENRY JOHNSON, of 47, Lincoln's Inn Fields, in the County of Middlesex, and of Glasgow, North Britain, Gentleman, for an invention for—"Improvements in the construction of seats and similar articles of furniture."—*A communication from Pierre Scholtus, of Paris, in the Empire of France, Piano manufacturer.* *Letters Patent sealed.*

GEDGE. 22nd January 1855.

162. JOHN GEDGE, of No. 4, Wellington Street South, Strand, in the County of Middlesex, Patent agent, for an invention for—"Improvements in laminating metals either in relief or bas relief."—*A communication from Mess" Tournel, frères, of Saint Chamond, in the Empire of France.* *Letters Patent sealed.*

TROTMAN. 22nd January 1855.

163. SANDERS TROTMAN, of Portman Square, in the County of Middlesex, Hydraulic Engineer, for an invention for—"Improvements in filtering apparatus." *Provisional protection only.*

CARR. 22nd January 1855.

164. HENRY CARR, of Peterborough, in the County of Northampton, Civil Engineer, for an invention for—"Certain improvements in railway crossings." *Letters Patent sealed.*

PAPE. 22nd January 1855.

165. JOHN HENRY PAPE, of Paris, for an invention for—"Improvements in piano-fortes." *Letters Patent sealed.*

JOHNSTON. 22nd January 1855.

166. ROBERT JOHNSTON, of Drums Lane, Lock Street, Aberdeen, in the County of Aberdeen, North Britain, Soap maker, for an invention for—"The use of certain portions of fish in the manufacture of soap." *Letters Patent sealed.*

VAN CAMP. 22nd January 1855.

167. JACQUES JOSEPH VAN CAMP, of Paris, in the Empire of France, and of 32, Essex Street, Strand, London, for an invention for—"Improvements in pistons of steam-engines." *Provisional protection only.*

VASNIER. 22nd January 1855.

168. FRANÇOIS ARSÈNE VASNIER, of Paris, in the Empire of France, and of 32, Essex Street, Strand, London, for an invention for—"Certain improvements in fire-places." *Letters Patent sealed.*

BÉRARD-TOUZELIN. 22nd January 1855.

169. PIERRE HIPPOLYTE GUSTAV BÉRARD-TOUZELIN, of Paris, Empire of France, Manufacturer, for an invention for—"Improvements in the manufacture of artificial flowers." *Provisional protection only.*

KILGOUR. 22nd January 1855.

170. WILLIAM KILGOUR, of Liverpool, in the County of Lancaster, Merchant, for an invention for—"An improved manufacture of naphtha, paraffine, and paraffine oil." *Letters Patent sealed.*

ARKELL. 22nd January 1855.

171. PETER ARKELL, of Stockwell, in the County of Surrey, Engineer, for an invention for—"An improved mode of purifying whale and seal oils." *Letters Patent sealed.*

COATES. 23rd January 1855.

172. JOHN COATES, of Salford, in the County of Lancaster, Engineer, for an invention for—"Improvements in railways." *Letters Patent sealed.*

PRINCE. 23rd January 1855.

173. FREDERIC PRINCE, of No. 3, South Parade, Chelsea, in the County of Middlesex, for an invention for—"Improvements in cartridges for fire-arms." *Letters Patent sealed.*

DRAY. 23rd January 1855.

174. WILLIAM DRAY, of Swan Lane, in the City of London, Agricultural implement maker, for an invention for—"An improved machine for cutting chaff." *Letters Patent sealed.*

SELLWOOD. 23rd January 1855.

175. WALTER SELLWOOD, of Cheapside, in the City of London, Draper, for an invention for—"An improvement in spatterdashes." *Provisional protection only.*

FENTON. 23rd January 1855.

176. JAMES FENTON, of Low Moor, in the County of York, Civil Engineer, for an invention for—"Improvements in the manufacture of axles, shafts, rods, and bars." *Letters Patent sealed.*

PETTIT. SMITH. 23rd January 1855.

177. GEORGE BROOKS PETTIT, and HENRY FLY SMITH, both of New Oxford Street, in the County of Middlesex, Gas Engineers, for an invention for—"Improvements in stoves and other apparatus for generating heat from gas, and in the employment and removal of the vapours produced by its combustion."—*Letters Patent sealed.*

LAMING. 24th January 1855.

178. RICHARD LAMING, of Carlton Villas, Maida Vale, in the County of Middlesex, for an invention for—"Improvements in obtaining and combining ammonia." *Letters Patent sealed.*

WEBSTER. 24th January 1855.

179. JAMES WEBSTER, of Birmingham, in the County of Warwick, Engineer, for an invention for—"A new or improved method of changing the direction of and multiplying motion." *Letters Patent sealed.*

ANDERSON.
24th January 1855.

180. SIR JAMES CALEB ANDERSON, of Fermoy, in the County of Cork, Ireland, Baronet, for an invention for—"Improvements in steering ships."
Letters Patent sealed.

TUPPER.
24th January 1855.

181. CHARLES WILLIAM TUPPER, of the firm of Mess" Tupper & Carr, of 3, Mansion House Place, in the City of London, Galvanized iron manufacturer, for an invention for—"Improvements in the construction and arrangement of coverings for buildings." *Letters Patent sealed.*

LIVESEY.
24th January 1855.

182. JOHN LIVESEY, of New Lenton, in the County of Nottingham, Lace manufacturer, for an invention for—"Improvements in lace machinery."
Letters Patent sealed.

SCHMERSAHL.
BOUCK.
24th January 1855.

183. AUGUSTUS EDWARD SCHMERSAHL, of Miles Platting, in the County of Lancaster, Analytical and practical chemist, and JOHN AUGUSTUS BOUCK, of same place, Manufacturing chemist, for an invention for—"Improvements in the manufacture of sulphuric acid and in apparatus for effecting the same."
Letters Patent sealed.

NEWTON.
24th January 1855.

184. WILLIAM EDWARD NEWTON, of the Office for patents, 66, Chancery Lane, in the County of Middlesex, Civil Engineer, for an invention for—"Improved machinery for raising and forcing fluids."—*A communication.* *Letters Patent sealed.*

GREGORY.
HOW.
25th January 1855.

185. JOHN GREGORY, and ANDREW PEDDIE HOW, both of Mark Lane, in the City of London, Engineers, for an invention for—"Certain improvements in steam-engines, and in packing for pumps and other machinery in which packing is required."
Provisional protection only.

WINSTANLEY.
KELLY.
25th January 1855.

186. WILLIAM WINSTANLEY, and JOSEPH KELLY, of Liverpool, in the County of Lancaster, Engineers, for an invention for—"Improvements in pump gear."
Provisional protection only.

SAMUEL.
25th January 1855.

187. BARNETT SAMUEL, of Sheffield, in the County of York, Comb manufacturer, for an invention for—"Improvements in the manufacture of knife handles, umbrella and stick handles, door knobs, articles of furniture, and other articles having the appearance and transparency of solid tortoiseshell." *Letters Patent sealed.*

POWELL.
25th January 1855.

188. HENRY BUCKWORTH POWELL, of Foxleaze Park, Lyndhurst, for an invention for—"An improved precautionary keel to be applied to vessels when in shallow water or other difficult navigation." *Provisional protection only.*

BURNARD.
25th January 1855.

189. CHARLES FREDERICK BURNARD, of Plymouth, Manufacturing chemist, for an invention for—"Improvements in the manufacture of superphosphate of lime."
Letters Patent sealed.

ANDERSON.
25th January 1855.

190. ALEXANDER WILLIAM ANDERSON, of Birmingham, in the County of Warwick, News agent, for an invention for—"Improvements in posting or exhibiting advertisements." *Letters Patent sealed.*

JOHNSON.
25th January 1855.

191. JOHN HENRY JOHNSON, of 47, Lincoln's Inn Fields, in the County of Middlesex, and of Glasgow, North Britain, Gentleman, for an invention for—"Improvements in the construction and arrangement of electric telegraphs, and in the application thereof."—*A communication from the Chevalier Gaetano Bonelli, of Turin, in the Kingdom of Sardinia, Director General of Sardinian Telegraphs.* *Letters Patent sealed.*

JOHNSON.
25th January 1855.

192. JOHN HENRY JOHNSON, of 47, Lincoln's Inn Fields, in the County of Middlesex, and of Glasgow, North Britain, Gentleman, for an invention for—"Improvements in machinery or apparatus for preparing cotton and similar fibrous materials."—*A communication from Charles Leyherr, of Laval, in the Empire of France, Spinner.* *Letters Patent sealed.*

BURSILL.
25th January 1855.

193. GEORGE HENRY BURSILL, of Ranelagh Road, Thames Bank, Pimlico, Engineer and Assayer of Minerals, for an invention for—"Improvements in cases or coverings for explosive substances or compounds." *Stopped at fiat.*

BROOMAN.
25th January 1855.

194. RICHARD ARCHIBALD BROOMAN, of 166, Fleet Street, in the City of London, Patent agent, for an invention for—"A power accumulator or apparatus to be employed with hydraulic presses."—*A communication from Jean Baptiste Falguière, of Marseilles.* *Letters Patent sealed.*

TOWNSEND. 26th January 1855.

195. WILLIAM TOWNSEND, of the City of Coventry, in the County of Warwick, Machinist, for an invention for—"Constructing vehicles without axle-trees and thus affording an improved method of lowering the body of the vehicle."
Provisional protection only.

LAMACRAFT. 26th January 1855.

196. JOHN LAMACRAFT, of Westbourne Grove, in the County of Middlesex, Engraver, for an invention for—"Improvements in envelopes or means for securing letters, notes, and similar documents."—*Complete specification. Letters Patent sealed.*

BINNS. HAUGHTON. 26th January 1855.

197. WILLIAM BINNS, of Claremont Villa, Victoria Grove, Brompton, in the County of Middlesex, Consulting Engineer, and JAMES HAUGHTON, of Bank side, New Mill, Oldham, in the County of Lancaster, Engineer, for an invention for—"Certain improvements in valves for stopping, retarding, and regulating the flow of steam, water, or other fluids." *Letters Patent sealed.*

BEALES. 26th January 1855.

198. WILLIAM BEALES, of 12, Arlington Street, Camden Town, in the County of Middlesex, Cartridge maker, for an invention for—"Improvements in cartridges."
Stopped at fiat.

BELL. 26th January 1855.

199. GEORGE BELL, of 21, Cannon Street West, in the City of London, Merchant, for an invention for—"Improvements in constructing air springs."—*A communication. Letters Patent sealed.*

LEESE. 26th January 1855.

200. JOSEPH LEESE, Junior, of Manchester, in the County of Lancaster, Manufacturer, for an invention for—"Certain improvements in the process of printing calicoes and other textile fabrics." *Letters Patent sealed.*

VOSE. 26th January 1855.

201. WILLIAM T. VOSE, of the State of Massachusetts, of the United States of America, for an invention for—"New and useful improvements in pumps for elevating fluids." *Letters Patent sealed.*

ATKIN. MILLER. 26th January 1855.

202. ISAAC ATKIN, of Basford, in the County of Nottingham, and of Saint Mary's Place, in the Town and County of the Town of Nottingham, Lace manufacturer, and MARMADUKE MILLER, of Vernon Terrace, in the Town and County of the Town of Nottingham aforesaid, Steam gauge maker, for an invention for—"Improvements in apparatus for measuring the supply of water and regulating the supply of fluids." *Letters Patent sealed.*

MORRIS. 26th January 1855.

203. WILLIAM RICHARD MORRIS, of Deptford, in the County of Kent, Engineer to the Kent Waterworks Company, for an invention for—"Improvements in the construction and arrangement of apparatus for preventing the waste of water from service pipes or cisterns." *Stopped at fiat.*

SEARBY. 26th January 1855.

204. GEORGE SEARBY, of 154, Sloane Street, Chelsea, in the County of Middlesex, for an invention for—"Improvements in the manufacture of boots and shoes, also applicable to other articles made of or partly formed of leather."—*Letters Patent sealed.*

MALLET. 26th January 1855.

205. ROBERT MALLET, Engineer, of Dublin, in Ireland, for an invention for—"Improvements in the manufacture of hollow shot and shells and similar hollow bodies, of cast iron or other cast metals." *Letters Patent sealed.*

JOHNSON. 26th January 1855.

206. JOHN HENRY JOHNSON, of 47, Lincoln's Inn Fields, in the County of Middlesex, and of Glasgow, North Britain, Gentleman, for an invention for—"Improvements in the construction of kites, and in the application thereof to the purposes of carrying lines and of signalling."—*A communication from André Marie Préverand, of Paris, in the Empire of France. Letters Patent sealed.*

HUTCHINSON. 27th January 1855.

207. JOHN HUTCHINSON, of Longroyd Bridge, Huddersfield, in the West Riding of the County of York, Engineer, for an invention for—"Improvements in apparatus to economize steam." *Letters Patent sealed.*

MAYER. BUSH. 27th January 1855.

208. SAMUEL MAYER, of Bristol, Potter, and WILLIAM BUSH, of the same City, Millwright, for an invention for—"Improvements in reducing flint and other substances, rendering them suitable for the manufacture of porcelain and other earthenware articles."—*Complete specification. Letters Patent sealed.*

ONION. 27th January 1855.

209. WILLIAM ONION, of Birmingham, in the County of Warwick, Manufacturer, for an invention for—"An improvement or improvements in gas stoves."
Provisional protection only.

DAVIS.
27th January 1855.

210. ELIAS DAVIS, of Aldgate, in the City of London, India-rubber manufacturer, for an invention for—"Improvements in rendering paper waterproof."
Provisional protection only.

FONTAINEMOREAU.
27th January 1855.

211. PETER ARMAND LE COMTE DE FONTAINEMOREAU, of 4, South Street, Finsbury, London, and 39, Rue de l'Echiquier, Paris, Patent agent, for an invention for—"An improved machine for manufacturing thimbles employed on board ship or elsewhere."—*A communication.* *Letters Patent sealed.*

NIGHTINGALE.
NIGHTINGALE.
27th January 1855.

212. HENRY NIGHTINGALE, of Chorley, in the County of Lancaster, Manager, and ROBERT NIGHTINGALE, of the same place, Grocer, for an invention for—"Improvements in machinery or apparatus for slubbing, roving, and spinning cotton and other fibrous materials." *Letters Patent sealed.*

LENOIR.
27th January 1855.

213. AUGUSTE LEOPOLD LENOIR, of Paris, in the Empire of France, and of 32, Essex Street, Strand, London, for an invention for—"Improvements in breech loading fire-arms."—*Complete specification.* *Letters Patent sealed.*

WILKINS.
29th January 1855.

214. JOHN WILKINS, Commercial Clerk, of No. 2, New Charles Street, City Road, in the parish of St. Luke, in the County of Middlesex, for an invention for—"An improved mode or method of damping or moistening postage, receipt, or other stamps, adhesive labels, the surface of paper, and other substances."
Provisional protection only.

POLKINHORN.
29th January 1855.

215. WILLIAM POLKINHORN, of Gwennap, near Redruth, in the County of Cornwall, Miller, for an invention for—"Improvements in apparatus for cleansing wheat." *Letters Patent sealed.*

DORMOY.
29th January 1855.

216. HENRI LOUIS DORMOY, Gentleman, of Paris, a Town in the French Empire, for an invention for—"Certain improvements in braiding or platting machinery."—*A communication.* *Letters Patent sealed.*

HUMPHREYS.
29th January 1855.

217. JOHN DODRIDGE HUMPHREYS, of 20, Charlotte Street, Caledonian Road, for an invention for—"Improvements in steam-engines." *Letters Patent sealed.*

IMRAY.
29th January 1855.

218. JOHN IMRAY, of 64, Bridge Road, Lambeth, in the County of Surrey, Engineer, for an invention for—"Improvements in locks." *Letters Patent sealed.*

GOODFELLOW.
29th January 1855.

219. GEORGE GOODFELLOW, of Great Fenton, Stoke-upon-Trent, Staffordshire Potteries, for an invention for—"Improvements in supplying heated air to the bottoms and flues of potters' and brickmakers' ovens and kilns, and of steam-engine boilers."
Provisional protection only.

COLLINGE.
29th January 1855.

220. ARTHUR COLLINGE, of 65, Bridge Road, Lambeth, in the County of Surrey, Engineer, for an invention for—"Improvements in spring hinges."
Letters Patent sealed.

BINKS.
29th January 1855.

221. THOMAS BINKS, of Wentworth, in the County of York, Plumber and Glazier, for an invention for—"Improvements in raising and regulating the supply of water and other fluids." *Letters Patent sealed.*

JOHNSON.
29th January 1855.

222. JOHN HENRY JOHNSON, of 47, Lincoln's Inn Fields, in the County of Middlesex, and of Glasgow, North Britain, Gentleman, for an invention for—"Improvements in looms for weaving."—*A communication from Gustave Borneque, of Bavillers, in the Empire of France, Manufacturer.* *Letters Patent sealed.*

JOHNSON.
29th January 1855.

223. JOHN HENRY JOHNSON, of 47, Lincoln's Inn Fields, in the County of Middlesex, and of Glasgow, North Britain, Gentleman, for an invention for—"Improvements in the generation of steam."—*A communication from Paulin Jean Charles Montety, of Toulon, in the Empire of France.* *Letters Patent sealed.*

PICHOT.
29th January 1855.

224. ALPHONSE PICHOT, Printer, of Poitiers, Empire of France, and of 32, Essex Street, Strand, London, for an invention for—"Certain improvements in postage paper and envelopes." *Stopped at fiat.*

DEATH.
POPPLEWELL.
29th January 1855.

225. EPHRAIM DEATH, and JOHN POPPLEWELL, both of Halstead, in the County of Essex, Engineers, for an invention for—"An improved stop valve or cock for water, gas, and other liquids and fluids." *Provisional protection only.*

CUNNAH. HAMPSON. 29th January 1855.

226. EDWARD CUNNAH, Brass founder, and JOHN HAMPSON, Timekeeper, both of Liverpool, in the County of Lancaster, for an invention for—"Improved turnstile counting apparatus." *Stopped at fiat.*

MOLINE. 30th January 1855.

227. DAVID MOLINE, of Adelaide Place, in the City of London, Merchant, for an invention for—"Improvements in the manufacture of metallic window frames and skylights."—*A communication.* *Letters Patent sealed.*

BROOMAN. 30th January 1855.

228. RICHARD ARCHIBALD BROOMAN, of 166, Fleet Street, in the City of London, Patent agent, for an invention for—"An improved filter."—*A communication.* *Provisional protection only.*

FONTAINEMOREAU. 30th January 1855.

229. PETER ARMAND LE COMTE DE FONTAINEMOREAU, of 4, South Street, Finsbury, London, and 39, Rue de l'Echiquier, Paris, Patent agent, for an invention for—"An improved machine for drilling and boring rock for tunnelling and rock excavation generally."—*A communication.* *Stopped at first reference.*

HENRI. 30th January 1855.

230. GEORGE WILLIAM HENRI, of Fishergate, in the City of York, for an invention for—"A new compound or meal mixture for feeding cattle."—*Letters Patent sealed.*

POCHIN. 30th January 1855.

231. HENRY DAVIS POCHIN, of Salford, in the County of Lancaster, of the firm of Halliday, Pochin, & Co., Manufacturing chemists, for an invention for—"Improvements in the treatment of certain compounds of alumina, and the application of the same in printing, dyeing, tawing, paper making, and such like purposes." *Letters Patent sealed.*

WARREN. 30th January 1855.

232. DAVID WARREN, of Glasgow, in the County of Lanark, North Britain, Engineer, for an invention for—"Improvements in screw propellers." *Provisional protection only.*

SMITH. HOLLINGWORTH. 31st January 1855.

233. JOHN SMITH, of Langley Mills, in the parish of Brancepeth, Paper manufacturer, and JAMES HOLLINGWORTH, of the same place, both in the County of Durham, Manager, for an invention for—"Improvements in treating certain fibrous materials for manufacturing paper." *Letters Patent sealed.*

LYON. 31st January 1855.

234. ARTHUR LYON, of Windmill Street, Finsbury, in the County of Middlesex, Sausage machine manufacturer, for an invention for—"An improvement in sausage making or mincing machines." *Letters Patent sealed.*

WHITE. 31st January 1855.

235. STEPHEN WHITE, of Southport, in the County of Lancaster, Gentleman, for an invention for—"Improvements in the manufacture of pencils or crayons." *Provisional protection only.*

PRICE. 31st January 1855.

236. GEORGE PRICE, of Wolverhampton, in the County of Stafford, Manufacturer, for an invention for—"Improvements in iron safes, chests, and boxes." *Letters Patent sealed.*

HOWARD. 31st January 1855.

237. JAMES HOWARD, of Bedford, Agricultural implement maker, for an invention for—"Improvements in ploughs." *Letters Patent sealed.*

DELGUEY-MALAVAS. 31st January 1855.

238. JACQUES ROUX DELGUEY-MALAVAS, Gentleman, of Montbrison, in the Empire of France, for an invention for—"Improved machinery for obtaining and applying motive-power." *Letters Patent sealed.*

SAMUELSON. SAMUELSON. 31st January 1855.

239. MARTIN SAMUELSON, and ALEXANDER SAMUELSON, of Scott Street Foundry, Hull, Engineers and Ship builders, for an invention for—"Improvements in steam-engines." *Letters Patent sealed; no specification filed.*

PORTER. 31st January 1855.

240. JOHN FRANCIS PORTER, of Bessborough Street, in the County of Middlesex, Civil Engineer, for an invention for—"Improvements in the manufacture of bricks and other articles of clay or brick earth." *Letters Patent sealed.*

HARRINGTON. 31st January 1855.

241. JOSIAH HARRINGTON, of 14, Pelham Street, Brompton, in the County of Middlesex, for an invention for—"Improvements in priming fire-arms." *Provisional protection only.*

BELLFORD. 31st January 1855.

242. AUGUSTE EDOUARD LORADOUX BELLFORD, of 32, Essex Street, London, Patent agent, for an invention for—"Improvements in machinery for forging nuts and washers."—*A communication from Charles H. Wateron, of America.* *Letters Patent sealed.*

TAYLOR.
1st February 1855.

243. WILLIAM TAYLOR, of 16, Oxford Terrace, Hyde Park, for an invention for—"Improvements in cables for holding at anchor and towing ships and other floating bodies." *Letters Patent sealed.*

DIXON.
1st February 1855.

244. THOMAS OGDEN DIXON, of Steeton, near Keighley, in the County of York, Bobbin manufacturer, for an invention for—"Improvements in machinery or apparatus for turning, boring, cutting, and shaping wood and similar materials." *Letters Patent sealed.*

PRINCE.
1st February 1855.

245. ALEXANDER PRINCE, of No. 4, Trafalgar Square, Charing Cross, in the County of Middlesex, Patent agent, for an invention for—"Improvements in fire-arms."—*A communication.* *Letters Patent sealed.*

JECKS.
1st February 1855.

246. ISAAC JECKS, of Trouse Newton Lodge, near Norwich, in the County of Norfolk, for an invention for—"A machine for sweeping grass or weeds from lawns or fields and depositing the same into a box or other receptacle."—*Letters Patent sealed.*

WILLIAMSON.
1st February 1855.

247. ALEXANDER WILLIAM WILLIAMSON, of University College, Gower Street, in the County of Middlesex, for an invention for—"Improvements in apparatus for feeding fires." *Letters Patent sealed.*

GOODFELLOW.
2nd February 1855.

248 BENJAMIN GOODFELLOW, of Hyde, in the County of Chester, Engineer, for an invention for—"Improvements in ordnance." *Letters Patent sealed.*

SOELMAN.
2nd February 1855.

249. WILLIAM SOELMAN, of 3, Bennet Street, Fitzroy Square, Gentleman, for—"An invention applicable to shipping and mills, under the title of the 'Naukinetic or ship moving machine.'"—*Complete specification.* *Stopped at deposit.*

RITCHIE.
2nd February 1855.

250. GEORGE RITCHIE, of 3, Monmouth Place, New Cross, New Kent Road, for an invention for—"Improvements in beds or mattresses." *Letters Patent sealed.*

CASTEL.
BEAUPRÉ.
2nd February 1855.

251. JULES CASTEL, Merchant, and FREDERIC MAURICHEAU BEAUPRÉ, Doctor, of Marseilles, in the Department of Bouches du Rhône, Empire of France, and No. 32, Essex Street, Strand, London, for an invention for—"A new system of burner for lamps, called the Pyro-pneumatic burner." *Letters Patent sealed.*

CARLHIAN.
CORBIÈRE.
2nd February 1855.

252. ISIDORE CARLHIAN, and ISIDORE CORBIÈRE, of Castle Street, 27, Holborn, London, and of Rue du Sentier, 26, Paris, Lamp manufacturers, for an invention for—"Certain improvements in moderator lamps." *Letters Patent sealed.*

THOMAS.
TILLEY.
3rd February 1855.

253. FREDERICK SAMSON THOMAS, of 17, Cornhill, London, in the County of Middlesex, and WILLIAM EVANS TILLEY, of 6, Kirby Street, in the parish of St. Andrew's, Holborn, in the County of Middlesex, for an invention for—"Improvements in plating or coating metals." *Letters Patent sealed.*

CRANE.
3rd February 1855.

254. PATRICK MOIR CRANE, of Athy, in the County of Kildare, Manager of works, for an invention for—"Improvements in the manufacture of products from peat." *Letters Patent sealed.*

CHANCE.
3rd February 1855.

255. JAMES TIMMINS CHANCE, of Birmingham, for an invention for—"Improvements in the manufacture of pipes or tubes of glass or other vitreous matter." *Letters Patent sealed.*

MARY'ON.
3rd February 1855.

256. ROBERT JAMES MARY'ON, (Engineer Civil) of No. 37, York Road, Lambeth, in the County of Surrey, for an invention for—"Improvement or improvements in the construction of and manufacture of bullets or shot or projectiles." *Letters Patent sealed.*

PATTERSON.
3rd February 1855.

257. JOHN PATTERSON, of Beverley, in the County of York, Engineer, for an invention for—"Improvements in machinery or apparatus for washing, wringing, and mangling or pressing clothes or textile fabrics." *Provisional protection only.*

CLEGG.
LEACH.
3rd February 1855.

258. EDMUND CLEGG, of Shore Mill, near Littleborough, in the County of Lancaster, and JAMES LEACH, of the same place, Manufacturers, for an invention for—"Improvements in temples for looms." *Letters Patent sealed.*

LIPPMANN.
3rd February 1855.

259. ISAIE LIPPMANN, of No. 4, Rue Geoffroy Saint Hilaire, Paris, in the Kingdom of France, Tanner, for an invention for—"An improved method of dyeing or colouring the hides and skins of animals." *Stopped at fiat.*

DE LA BERTOCHE. 3rd February 1855.

260. HIPPOLYTE VICTOR PINONDEL DE LA BERTOCHE, Gentleman, of Paris, in the French Empire, for an invention for—"Certain improvements in manufacturing paper, pasteboard, and pulp." *Stopped at fiat.*

ALLAN. 3rd February 1855.

261. THOMAS ALLAN, of Adelphi Terrace, in the City of Westminster, Civil Engineer, for an invention for—"Improvements in obtaining and transmitting motive-power." *Letters Patent sealed.*

BISSHOPP. 3rd February 1855.

262. EDWARD CECIL BISSHOPP, of Stonehouse, in the County of Devon, for an invention for—"Improvements in breech loading fire-arms."—*Provisional protection only.*

PATTISON. 5th February 1855.

263. GODFREY PATTISON, of the City of Glasgow, in the County of Lanark, Merchant, for an invention for—"Improvements in machinery for dressing and finishing woven goods or fabrics."—*A communication.* *Letters Patent sealed.*

BELLFORD. 5th February 1855.

264. AUGUSTE EDOUARD LORADOUX BELLFORD, of 32, Essex Street, Strand, London, Patent agent, for—"An improved invention for constructing hulls of vessels."—*A communication from Virgil Putnam Corbett, of Corbettsville, Broome County, State of New York.* *Letters Patent sealed.*

JOHNSON. 5th February 1855.

265. JOHN HENRY JOHNSON, of 47, Lincoln's Inn Fields, in the County of Middlesex, and of Glasgow, North Britain, Gentleman, for an invention for—"Improvements in the manufacture or construction of steam boilers or generators, and in the application of materials to such manufacture."—*A communication from Jackson, Brothers, Petin, Gaudet & Company, of Rive de Gier, in the Empire of France, Engineers.* *Letters Patent sealed.*

MORTON. 5th February 1855.

266. ALEXANDER MORTON, of Kilmarnock, in the County of Ayr, North Britain, Manufacturer, for an invention for—"Improvements in weaving carpets." *Letters Patent sealed.*

FONTAINEMOREAU. 5th February 1855.

267. PETER ARMAND LE COMTE DE FONTAINEMOREAU, of 4, South Street, Finsbury, London, and 39, Rue de l'Echiquier, Paris, Patent agent, for an invention for—"An improved mode of preserving railway and other tickets."—*A communication.* *Letters Patent sealed.*

DORRELL. 5th February 1855.

268. JOHN DORRELL, of Bilston, in the County of Stafford, for an invention for—"Improvements in machinery for pressing, squeezing, and rolling iron." *Provisional protection only.*

HARTNALL. 5th February 1855.

269. EBENEZER HARTNALL, of 1, St. Mary Axe, for an invention for—"Improvements in preserving animal and vegetable substances for food."—*Letters Patent sealed.*

IMRAY. 5th February 1855.

270. JOHN IMRAY, Engineer, of 64, Bridge Road, Lambeth, Surrey, for an invention for—"Improvements in measuring-instruments." *Letters Patent sealed.*

GIBBONS. 5th February 1855.

271. JOSEPH GIBBONS, of 345, Oxford Street, in the County of Middlesex, for an invention for—"An improvement in fixing the spindles of door locks to their knobs." *Letters Patent sealed.*

CARRÉ. 5th February 1855.

272. PIERRE JOSEPH CARRÉ, of Asnières, Seine, France, for an invention for—"Improvements in ornamenting fabrics with metal leaf." *Letters Patent sealed; no specification filed.*

DAFT. 5th February 1855.

273. THOMAS BARNABAS DAFT, of the Isle of Man, Esquire, for an invention for—"Improvements in the manufacture of beds or surfaces to recline or lie on." *Letters Patent sealed.*

HOARE. 6th February 1855.

274. DEANE JOHN HOARE, of 10, Salisbury Street, Strand, in the County of Middlesex, Esquire, for an invention for—"Certain improvements in propelling vessels." *Letters Patent sealed.*

GEDGE. 6th February 1855.

275. JOHN GEDGE, of No. 14, Wellington Street South, Strand, in the County of Middlesex, Patent agent, for an invention for—"Improvements in frames suitable for photographic or stereoscopic proofs or portraits."—*A communication from J. E. Pointeau, of Paris, in the Empire of France.* *Provisional protection only.*

TRAPPES. 6th February 1855.

276. HENRY TRAPPES, of Manchester, in the County of Lancaster, Gentleman, for an invention for—"A process for the preparation of leather to be used in the manufacture of a new flock, and for the manufacture of the same, to be used and applied in lieu of flock made from pounded or ground wool and woollen materials heretofore commonly used in the manufacture of painted, printed, and dyed decorating papers, carpets, oil-cloths, and other things,—and also to be used as a paste or pulp for the manufacture of all kinds of paper, parchment, and pasteboard, of toys, of ornamental and other picture frames, of mouldings, architectural and sculptural ornaments, and other things."—*A communication.* *Provisional protection only.*

ASTON. 6th February 1855.

277. THEO ASTON, of Compton Street, Regent's Square, in the County of Middlesex, for an invention for—"Improved apparatus and means for enabling persons conveyed in carriages to communicate with the drivers or conductors thereof." *Provisional protection only.*

GRAY. 6th February 1855.

278. FREDERICK GRAY, of Birmingham, in the County of Warwick, Manufacturer, for an invention for—"An improvement or improvements in candlesticks." *Letters Patent sealed.*

WARNER. 6th February 1855.

279. ARTHUR WARNER, of 11, New Broad Street, London, Merchant, for an invention for—"Improvements in coating or combining sheet iron and steel with sheet lead, zinc, tin, copper, or alloys of such metals." *Stopped at fiat.*

JOHNSON. 6th February 1855.

280. JOHN HENRY JOHNSON, of 47, Lincoln's Inn Fields, in the County of Middlesex, and of Glasgow, North Britain, Gentleman, for an invention for—"Improvements in the combination of materials for waterproofing and similar purposes."—*A communication from Jonathan T. Trotter, of the City of New York, in the United States of America.* *Letters Patent sealed.*

SMITH. 6th February 1855.

281. PETER SMITH, of Glasgow, in the County of Lanark, North Britain, Machine maker, for an invention for—"Improvements in machinery or apparatus for printing textile fabrics and other surfaces." *Letters Patent sealed.*

ROBERTS. 6th February 1855.

282. WILLIAM SANDFORD ROBERTS, of the Town of Lodersville, in the County of Susquehanna, State of Pennsylvania, United States of America, for—"An invention for coupling railway carriages." *Letters Patent sealed.*

AUDEMARS. 6th February 1855.

283. GEORGE AUDEMARS, of Lausanne, Switzerland, for an invention for—"Improvements in obtaining and treating vegetable fibres." *Letters Patent sealed.*

GRAINGER. 6th February 1855.

284. JOHN GRAINGER, of Birchwood, in the parish of Alfreton, in the County of Derby, Brickmaker, for an invention for—"Improvements in the manufacture of pantiles." *Letters Patent sealed.*

FONTAINEMOREAU. 7th February 1855.

285. PETER ARMAND LE COMTE DE FONTAINEMOREAU, of 4, South Street, Finsbury, London, and 39, Rue de l'Echiquier, Paris, Patent agent, for an invention for—"An improvement in the mode of applying as motive-power heated air combined with the vapour of ether or of any other liquid easily vapourized."—*A communication.* *Letters Patent sealed.*

WARBRICK. WALKER. 7th February 1855.

286. WILLIAM WARBRICK, of Dukinfield, Machine maker, and JOHN WALKER, of Compstall Bridge, near Stockport, Mechanic, both in the County of Chester, for an invention for—"Certain improvements in machines for preparing, spinning, doubling, warping, and dressing cotton-wool and other fibrous substances." *Letters Patent sealed.*

JOHNSON. 7th February 1855.

287. JOHN GROVE JOHNSON, of 18, Basinghall Street, in the City of London, for an invention for—"Improvements in surgical bandages." *Letters Patent sealed.*

BOUSFIELD. 7th February 1855.

288. GEORGE TOMLINSON BOUSFIELD, of Sussex Place, Loughborough Road, Brixton, in the County of Surrey, for an invention for—"Improvements in steam ploughing machines."—*A communication from Obed Hussey.* *Stopped at fiat.*

DAVIES. 7th February 1855.

289. EDWARD DAVIES, of Liverpool, Oil refiner and Distiller, of the firm of Davies, Syers, & Co., of Liverpool, for an invention for—"An improvement in the manufacture of an oil and paraffine from a material not hitherto used for such purposes." *Stopped at second reference.*

BOUSFIELD. 7th February 1855.

290. GEORGE TOMLINSON BOUSFIELD, of Sussex Place, Loughborough Road, Brixton, in the County of Surrey, for an invention for—"Improvements in looms for weaving ornamental figured fabrics, and in the construction of the rollers to be used upon the pattern chains of such looms."—*A communication.* *Letters Patent sealed.*

CHATTERTON. 7th February 1855.

291. RICHARD DOVER CHATTERTON, of Cobourg, Canada West, for an invention for—"Improvements in propelling vessels." *Provisional protection only.*

HOFFSTAEDT. BLACKWELL. 7th February 1855.

292. AUGUSTUS JOHANN HOFFSTAEDT, of Albion Place, Blackfriars, and SAMUEL BLACKWELL, of 259, Oxford Street, for an invention for—"An improvement in powder flasks and shot belts or pouches." *Provisional protection only.*

BRIGGS. 7th February 1855.

293. GEORGE BRIGGS, of Wigmore Street, in the County of Middlesex, Carriage builder, for an invention for—"An improved spring for carriages." *Letters Patent sealed.*

NEWTON. 7th February 1855.

294. ALFRED VINCENT NEWTON, of the Office for Patents, 66, Chancery Lane, in the County of Middlesex, Mechanical draughtsman, for an invention for—"An improved construction of spur."—*A communication.* *Letters Patent sealed.*

NEWTON. 7th February 1855.

295. ALFRED VINCENT NEWTON, of the Office for Patents, 66, Chancery Lane, in the County of Middlesex, Mechanical draughtsman, for an invention for—"An improved mode of constructing dry docks."—*A communication.* *Letters Patent sealed.*

HARTFIELD. 7th February 1855.

296. WILLIAM HARTFIELD, of Prospect Row, Bermondsey, in the County of Surrey, Tortoiseshell worker, for an invention for—"Making book covers in tortoiseshell inlaid or not with pearl or ivory, and for improvements in machinery for embossing, carving, and inlaying book covers with pearl and ivory, and for making metal joints by which such books may be widely opened, the said improvements to be applicable to inlaying pianofortes." *Letters Patent sealed.*

WILSON. 8th February 1855.

297. JOHN WILSON, of the City of Manchester, Calico printer, for an invention for—"Improvements in the manufacture of rollers for printing and embossing calico and other fabrics." *Provisional protection only.*

GIRARD. 8th February 1855.

298. ADOLPHE GIRARD, Chemist, of Pertuis, in the Department of Vaucluse, Empire of France, and of 32, Essex Street, Strand, London, for an invention for—"Certain improvements in extinguishing fires." *Letters Patent sealed.*

PULS. 8th February 1855.

299. FRANCIS PULS, of Soho Square, in the County of Middlesex, Chemist, for an invention for—"Certain improvements in apparatus to be used in smoking tobacco." *Provisional protection only.*

ARMSTRONG. 8th February 1855.

300. JOSEPH ARMSTRONG, of the Normanton Station, Wakefield, in the County of York, for an invention for—"Improvements in certain parts of the permanent way of railways." *Provisional protection only.*

WILSON. PAYNE. 8th February 1855.

301. GEORGE FERGUSSON WILSON, of Belmont, Vauxhall, Managing Director of Price's Patent Candle Company, and GEORGE PAYNE, of the same place, for an invention for—"Improvements in treating glycerine." *Letters Patent sealed.*

RANSOME. 8th February 1855.

302. FREDERICK RANSOME, of Ipswich, for an invention for—"Improvements in drying articles made of plastic materials." *Letters Patent sealed.*

MARY'ON. 8th February 1855.

303. ROBERT JAMES MARY'ON, (Engineer Civil) of No. 37, York Road, Lambeth, in the County of Surrey, for an invention for—"Improvement or improvements in the construction of and manufacture of ordnance, part or section of his said invention he applies for improvement in the construction of fire-arms of every class." *Stopped at fiat.*

ARMSDELL. 9th February 1855.

304. CHARLES ARMSDELL, of Fenchurch Street, in the City of London, Painter, for an invention for—"An improved sifter or shovel." *Provisional protection only.*

MARTIN. 9th February 1855.

305. JOSEPH MARTIN, of Liverpool, in the County of Lancaster, Corn and Rice Miller and Merchant, for an invention for—"Improvements in machinery for treating wheat and other grain." *Provisional protection only.*

ADAMS.
9th February 1855.

306. WILLIAM BRIDGES ADAMS, of No. 1, Adam Street, Adelphi, in the County of Middlesex, Engineer, for an invention for—"Improvements in the construction and application of elastic springs for sustaining loads or moderating concussion in fixed or moving machines or carriages." *Letters Patent sealed.*

LEES.
HEAP.
9th February 1855.

307. JOHN LEES, of Park Bridge Iron works, Ashton-under-Lyne, in the County of Lancaster, and WILLIAM HEAP, also of Ashton-under-Lyne, in the County of Lancaster, Tool maker, for an invention for "A new or improved machine or apparatus for cutting and straightening bars of metal." *Letters Patent sealed.*

JOHNSON.
9th February 1855.

308. WILLIAM BECKETT JOHNSON, of Manchester, in the County of Lancaster, Manager for Messrs Ormerod and Son, Engineers, for an invention for "Improvements in steam-boilers and engines." *Letters Patent sealed.*

PONT.
9th February 1855.

309. BARTHELEMY PONT, of No. 1, Rue Bourdalaue, in the City of Paris, in the Empire of France, Photographic artist, for an invention for "A process of autographic engraving." *Provisional protection only.*

PARKER.
9th February 1855.

310. FRANCIS PARKER, of Waterloo, Northampton, for an invention for—"An improvement in the manufacture of paper." *Provisional protection only.*

LANGMAN.
9th February 1855.

311. JOHN LANGMAN, of Plymouth, in the County of Devon, Architect, for an invention for—"Improvements in portable buildings specially adapted to campaigning purposes." *Letters Patent sealed.*

BARNARD.
BISHOP.
10th February 1855.

312. CHARLES BARNARD and JOHN BISHOP, of the City of Norwich, in the County of Norfolk, Ironmongers and copartners, for an invention for—"Improvements in apparatus for cutting vegetable substances." *Letters Patent sealed.*

SPARKHALL.
10th February 1855.

313. EDWARD SPARKHALL, of 142, Cheapside, in the City of London, Printer, for an invention for—"Improvements in the exhibition of pictorial representations of various subjects." *Letters Patent sealed.*

INGALL.
10th February 1855.

314. GEORGE HENRY INGALL, of Throgmorton Street, City, in the County of Middlesex, Gentleman, for an invention for—"Certain improvements in telegraphic communication and apparatus connected therewith." *Letters Patent sealed.*

RUSSELL.
10th February 1855.

315. SAMUEL RUSSELL, of 29, Porter Street, Sheffield, in the County of York, for an invention for—"Improvements in projectiles for fire-arms and ordnance." *Provisional protection only.*

COTTAM.
COTTAM.
10th February 1855.

316. GEORGE HALLEN COTTAM, and HENRY RICHARD COTTAM, of St. Pancras Iron works, Old St. Pancras Road, for an invention for—"Improvements in the construction of iron buildings." *Letters Patent sealed.*

BALK.
10th February 1855.

317. WILLIAM BALK, of Ipswich, in the County of Suffolk, Engineer, for an invention for—"Improvements in machinery for crushing grain and other substances." *Letters Patent sealed.*

SANDS.
10th February 1855.

318. ALEXANDER SANDS, of Liverpool, in the County of Lancaster, Iron founder, for an invention for—"An improved fastening or detainer to be employed as a substitute for 'clothes pegs' or for other similar purposes."—*A communication.* *Letters Patent sealed.*

BESNARD.
10th February 1855.

319. LOUIS ADOLPHE FERDINAND BESNARD, of Paris, in the Empire of France, and of 4, South Street, Finsbury, London, Gentleman, for an invention for—"An improved composition for fixing lithographs and engravings on canvas after being transposed or reproduced by a printing press." *Letters Patent sealed.*

BELLFORD.
10th February 1855.

320. AUGUSTE EDOUARD LORADOUX BELLFORD, of 32, Essex Street, Strand, London, Patent agent, for an invention for—"Certain materials to be used for cementing and painting, and also applicable to printing and dressing or finishing fabrics."—*A communication from Professor Frederic Kuhlmann, of Lille, France.* *Letters Patent sealed.*

RENNIE.
10th February 1855.

321. GEORGE RENNIE, of Holland Street, in the County of Surrey, Engineer, for an invention for—"Improvements in marine steam-engines." *Letters Patent sealed.*

RAMSBOTTOM. 12th February 1855.

322. JOHN RAMSBOTTOM, of Longsight, near the City of Manchester, Engineer, for an invention for—"Improvements in the construction of certain metallic pistons." *Letters Patent sealed.*

SMITH. 12th February 1855.

323. SAMUEL SMITH, of the City of Manchester, Cotton spinner, for an invention for—"Improvements in machinery for winding cotton and other yarns or threads." *Provisional protection only.*

LUCAS. 12th February 1855.

324. GEORGE LUCAS, of Hulme, in the City of Manchester, Mechanic, for an invention for—"Certain improvements in machinery for preparing, spinning, doubling and twisting cotton-wool, silk, and other fibrous materials."—*Provisional protection only.*

BARR. 12th February 1855.

325. DAVID BARR, Commercial Clerk, of 52, Dale End, Birmingham, for an invention for—"A new or improved tap for hot and cold fluids, steam, and gases." *Provisional protection only.*

KERR. 12th February 1855.

326. ROBERT KERR, of No. 41, Coleman Street, in the City of London, Architect and Surveyor, for an invention for—"Certain improvements in preparing loaf sugar for use, and certain apparatus for the same." *Letters Patent sealed.*

HARRIS. 12th February 1855.

327. RICHARD SHIRLEY HARRIS, of Leicester, Gentleman, for an invention for—"Improvements in the manufacture of looped fabrics." *Letters Patent sealed.*

FOSTER. 12th February 1855.

328. JOHN FOSTER, of Long Eaton, in the County of Derby, Machine builder, for an invention for—"Improvements in machinery for the manufacture of lace." *Letters Patent sealed.*

SMITH. MORRIS. 13th February 1855.

329. SAMUEL SMITH, of the City of Manchester, Spinner, and MOSES MORRIS, of Swinton, near Manchester aforesaid, Overlooker, for an invention for—"An improved machine for spinning cotton and other fibrous materials." *Provisional protection only.*

LAMBOT. 13th February 1855.

330. JOSEPH LOUIS LAMBOT, of Carces, in the Department of Var, Empire of France, and of 32, Essex Street, Strand, London, for an invention for—"An improved building material to be used as a substitute for wood." *Provisional protection only.*

VALLERY. 13th February 1855.

331. AUGUSTE VALLERY, of Rouen, Empire of France, and of 32, Essex Street, Strand, London, Civil Engineer, for an invention for—"An improved machine for the preparation of flax, hemp, and other textile materials." *Letters Patent sealed.*

COMFIELD. 13th February 1855.

332. ROBERT PETRIE COMFIELD, of Upper Holloway, in the County of Middlesex, Gentleman, for an invention for—"Improvements in the electro-coating of iron and other metals with zinc and other metals."—*Partly a communication.* *Provisional protection only.*

DALTON. 13th February 1855.

333. GEORGE DALTON, of Lymington, in the County of Southampton, Gentleman, for an invention for—"Improvements in reverberatory furnaces." *Stopped at fiat.*

METCALFE. SLAIDING. METCALFE. 14th February 1855.

334. THOMAS METCALFE, Mechanic, WILLIAM SLAIDING, Cotton stripper, and JOHN METCALFE, Mechanic, all of Clitheroe, in the County of Lancaster, for an invention for—"An improvement in the machines for preparing cotton,—known as Dyer's tube frames." *Provisional protection only.*

JOHNSON. 14th February 1855.

335. JOHN HENRY JOHNSON, of 47, Lincoln's Inn Fields, in the County of Middlesex, and of Glasgow, North Britain, Gentleman, for an invention for—"Improvements in governors or regulators for steam-engines or other prime movers."—*A communication from Hippolyte Edmond Branche, Mechanician, and Charles Coste, Merchant, of Paris, in the Empire of France.* *Letters Patent sealed.*

ISAAC. 14th February 1855.

336. JOHN RAPHAEL ISAAC, of Liverpool, in the County of Lancaster, Draughtsman, for an invention for—"Improvements in the construction of portable buildings." *Letters Patent sealed.*

NICHOL. 14th February 1855.

337. JAMES NICHOL, of Edinburgh, Scotland, Bookseller, for an invention for—"Improvements in bookbinding." *Letters Patent sealed.*

PATTINSON. 14th February 1855.

338. HUGH LEE PATTINSON, Junior, of Stotes Hall, Jesmond, Newcastle-upon-Tyne, for an invention for—"An improvement in the manufacture of iron carriage wheels." *Provisional protection only.*

BLANCHARD.
14th February 1855.

339. FRANCIS BROWN BLANCHARD, of the State of Maine, of the United States of America, for an invention for—"A new and useful apparatus for generating motive-power from heated air, steam, and the products of the combustion of coal or other fuel." *Letters Patent sealed.*

BLYTHE.
KOPP.
15th February 1855.

340. WILLIAM BLYTHE, of Oswaldtwistle, in the County of Lancaster, Manufacturing chemist, and EMILE KOPP, of Accrington, in the County of Lancaster, Chemist, for an invention for—"Improvements in the manufacture of soda-ash and sulphuric acid." *Letters Patent sealed.*

MOLESWORTH.
15th February 1855.

341. ROBERT MOLESWORTH, of Half Moon Street, Bishopsgate Street, in the City of London, Brush maker, for an invention for—"Improvements in the construction of brushes." *Letters Patent sealed.*

LEADBETTER.
15th February 1855.

342. JAMES LEADBETTER, of Halifax, in the County of York, Brazier, for an invention for—"Improvements in the mode or method of applying breaks to railway and other carriages." *Stopped at fiat.*

GOWER.
15th February 1855.

343. BENJAMIN GOWER, of Stratford, in the County of Essex, Engineer, for an invention for—"Improvements in cannons and pieces of ordnance, and in shot and projectiles for cannons and pieces of ordnance." *Letters Patent sealed.*

MASON.
THORNTON.
SAWYER.
15th February 1855.

344. JOHN MASON, of Rochdale, in the County of Lancaster, Machinist, and SAMUEL THORNTON, of the same place, and THOMAS SPENCER SAWYER, of Longsight, in the same County, Engineer, for an invention for—"Improvements in finishing or polishing and drying yarns or threads." *Letters Patent sealed.*

SPENCER.
15th February 1855.

345. HENRY SPENCER, of Rochdale, in the County of Lancaster, Manager, for an invention for—"Improvements in machinery for preparing and spinning cotton and other fibrous substances." *Letters Patent sealed.*

DELABARRE.
15th February 1855.

346. CHRISTOPHE FRANÇOIS DELABARRE, of Paris, in the Empire of France, and of 32, Essex Street, Strand, London, for an invention for—"Improved apparatus to be used in propelling gases and forcing liquids." *Letters Patent sealed.*

SPENCE.
16th February 1855.

347. WILLIAM SPENCE, of 50, Chancery Lane, in the County of Middlesex, Patent agent, for an invention for—"Improvements in substitutes for glass for ornamental purposes."—*A communication from Emmanuel Ludovico Rappaccioli, of Turin, in the Kingdom of Sardinia, Engineer to the Corps Royal du Genie.* *Letters Patent sealed.*

CARLESS.
16th February 1855.

348. EUGENE CARLESS, of Stepney, in the County of Middlesex, for an invention for—"Improvements in the manufacture of paper cloth, known as artificial leather, and in coating or covering the surface thereof with colouring matter, said colouring process being also adapted to the colouring or staining of paper."—*Letters Patent sealed.*

ABBOTT.
16th February 1855.

349. WILLIAM ABBOTT, Gentleman, No. 1, Lansdown Place, Richmond, in the County of Surrey, for an invention for—"A boot and shoe cleaning machine." *Provisional protection only.*

PERCY.
CRAVEN.
16th February 1855.

350. WILLIAM CARTER STAFFORD PERCY, Machinist, and WILLIAM CRAVEN, Engineer and tool maker, both of Vauxhall Iron works, Collyhurst Road, Manchester, in the County of Lancaster, for an invention for—"Improvements in the manufacture and in machinery and apparatus used in the manufacture of bricks, tiles, pipes, and other articles made from plastic materials." *Letters Patent sealed.*

BROOMAN.
16th February 1855.

351. RICHARD ARCHIBALD BROOMAN, of 166, Fleet Street, in the City of London, Patent agent, for an invention for—"A means of preparing the fibres of certain plants of the bean species in order to form them into pulp and to fit them for other manufacturing purposes."—*A communication.* *Provisional protection only.*

PATTINSON.
16th February 1855.

352. HUGH LEE PATTINSON, Junior, of Stotes Hall, near Newcastle-upon-Tyne, for an invention for—"An improvement in the manufacture of wrought iron tubes." *Provisional protection only.*

MANEGLIA.
16th February 1855.

353. FORTUNATO GAETANO PIETRO MARIA VITTORIO MANEGLIA, of the Turin and Genoa Railway, for an invention for—"Improvements in railway carriages." *Letters Patent sealed.*

BLACKBURN. DUNCAN. 16th February 1855.

354. ROBERT BLACKBURN, of Wandsworth Paper Mills, Wandsworth, and WILLIAM LUNDI DUNCAN, of Bridgefield Terrace, Wandsworth, for an invention for—"Improvements in bleaching." *Stopped at fiat.*

WRIGHT. GREEN. 16th February 1855.

355. SAMUEL BARLOW WRIGHT, of Parkfields, Stone, Staffordshire, and HENRY THOMAS GREEN, of Moreton, Staffordshire, for an invention for—"Improvements in the manufacture of encaustic tiles." *Letters Patent sealed.*

WARD. 16th February 1855.

356. ANDREW HENSHAW WARD, Junior, of the State of Massachusetts, of the United States of America, for an invention for—"A new and useful or improved loom temple."—*A communication from Jeremiah C. Tilton, of the State of New Hampshire, in the said United States.* *Letters Patent sealed.*

WRIGHT. 17th February 1855.

357. JAMES WRIGHT, of 16, Park Street, Kennington, in the County of Surrey, Oven builder, for an invention for—"Improvements in the construction of furnaces for the purpose of consuming more effectually than heretofore the smoke contained therein." *Letters Patent sealed.*

HAUGHTON. 17th February 1855.

358. HENRY PHILIP HAUGHTON, of Bethnal Green, in the County of Middlesex, Clerk, for an invention for—"Improvements in a certain article of wearing apparel for the ankles." *Provisional protection only.*

HACKETT. 17th February 1855.

359. JOHN HACKETT, of Derby, in the County of Derby, Manufacturer, for an invention for—"A new and improved fabric or fabrics for the manufacture of umbrellas, parasols, and buttons, and for other purposes." *Letters Patent sealed.*

HACKETT. 17th February 1855.

360. JOHN HACKETT, of Derby, in the County of Derby, Manufacturer, for an invention for—"An improved leather cloth, and the employment thereof for various useful purposes." *Letters Patent sealed; no specification filed.*

OXLEY. 17th February 1855.

361. JOHN OXLEY, of Beverley, in the County of York, Coach builder and wheel manufacturer, for an invention for—"Improvements in machinery for making wheels or the various parts of which wheels are composed." *Letters Patent sealed.*

ROBB. HILL. 17th February 1855.

362. JOHN ROBB, Timber merchant, and LAURENCE HILL, Ship builder, both in the parish of Greenock, and County of Renfrew, for an invention for—"Improvements in the masts and spars of ships and vessels." *Letters Patent sealed.*

MARY'ON. 17th February 1855.

363. ROBERT JAMES MARY'ON, of No. 37, York Road, Lambeth, in the County of Surrey, Mechanician, for an invention for—"Improvement or improvements in the construction of and application of steam-engines, for the better means of transmitting motion and conversion of motion, and of applying motive-power." *Provisional protection only.*

CHITTENDEN. 19th February 1855.

364. GEORGE REDFIELD CHITTENDEN, of the City of London, Gentleman, for an invention for—"Improved apparatus for measuring fluids."—*A communication.* *Letters Patent sealed.*

BROOMAN. 19th February 1855.

365. RICHARD ARCHIBALD BROOMAN, of 166, Fleet Street, in the City of London, Patent agent, for an invention for—"Improvements in the manufacture of capsules for stopping or covering bottles, jars, and other similar vessels, and in the machinery employed therein."—*A communication.* *Letters Patent sealed.*

TILLETT. 20th February 1855.

366. GEORGE TILLETT, of Clapham, in the County of Surrey, for an invention for—"Improvements in the construction of bedsteads." *Letters Patent sealed.*

HULETT. 20th February 1855.

367. DAVID HULETT, of Holborn, in the County of Middlesex, for an invention for—"Improvements in apparatus for heating, cooking, and lighting by gas."—*Partly a communication.* *Letters Patent sealed.*

BELLAMY. 20th February 1855.

368. SAMUEL BELLAMY, of Torquay, in the County of Devon, for an invention for—"Improvements in fire-arms and ordnance." *Provisional protection only.*

MEAD. 20th February 1855.

369. CHARLES ROPER MEAD, of Langdale Road, Peckham, in the County of Surrey, Gas Engineer, for an invention for—"An improved construction of gas regulator." *Letters Patent sealed.*

THIRION. 20th February 1855. — 370. ALBERT LOUIS THIRION, of Asche en Refail, Province of Namur, in the Kingdom of Belgium, for an invention for—"Improvements in pumps." *Provisional protection only.*

SCHOTTLANDER. 20th February 1855. — 371. HENRY SCHOTTLANDER, of Paris, in the Empire of France, and of 4, South Street, Finsbury, Manufacturer, for an invention for—"Improvements in ornamenting looking-glasses." *Letters Patent sealed.*

KERSHAW. TAYLOR. 20th February 1855. — 372. SAMUEL KERSHAW, of Heywood, in the County of Lancaster, Manufacturer, and JAMES TAYLOR, of the same place, Manager, for an invention for—"Certain improvements in carding-engines." *Letters Patent sealed.*

BROWN. 20th February 1855. — 373. JOHN HARCOURT BROWN, of No. 4, Trafalgar Square, Office for Patents, Charing Cross, for an invention for—"Improvements in the construction of ball cartridges for facilitating the loading and lubricating of fire-arms." *Stopped at fiat.*

BEAUMONT. 20th February 1855. — 374. FREDERICK BLACKET EDWARD BEAUMONT, of Upper Woodhall, Barnsley, in the County of York, Lieut' Royal Engineers, for an invention for—"Improvements in fire-arms called Revolvers." *Letters Patent sealed.*

WOTHLY. 20th February 1855. — 375. JEAN WOTHLY, of Zofflingen, Switzerland, for an invention for—"Improvements in the preservation of meat." *Letters Patent sealed.*

KIDD. 21st February 1855. — 376. JOSHUA KIDD, of Kildwick, near Bradford, in the County of York, and of Bradford aforesaid, Stuff manufacturer, for an invention for—"Improvements in machinery and apparatus for sewing and stitching cloth and other fabrics." *Letters Patent sealed.*

LAMING. 21st February 1855. — 377. RICHARD LAMING, of Carlton Villas, Maida Vale, in the County of Middlesex, for an invention for—"An improved process for combining the purification of gas with the obtaining of certain valuable products." *Stopped at fiat.*

GOODFELLOW. 21st February 1855. — 378. BENJAMIN GOODFELLOW, of Hyde, in the County of Chester, Engineer, for an invention for—"Improvements in machinery for pumping, which improvements are applicable to the air pumps of steam-engines, and to other purposes." *Letters Patent sealed.*

TELLE. 21st February 1855. — 379. JULIEN AIMABLE TELLE, of Paris, in the Empire of France, and of 32, Essex Street, Strand, London, for an invention for—"A system of railways to be used in the interior of cities and towns." *Stopped at fiat.*

ORGAN. PITT. 21st February 1855. — 380. THOMAS ORGAN, of Birmingham, in the County of Warwick, Manufacturer, and GEORGE PITT, of Birmingham aforesaid, Machinist, for an invention for—"A new or improved dress fastening." *Letters Patent sealed.*

NASMYTH. 21st February 1855. — 381. GEORGE NASMYTH, of Kennington, in the County of Surrey, Civil Engineer, for an invention for—"Improvements in preserving animal and vegetable matters." *Letters Patent sealed.*

HEPPEL. 21st February 1855. — 382. GEORGE HEPPEL, of Preston, in the County of Lancaster, Gentleman, for an invention for—"An improved rotary pump and engine."—*A communication from John Mortimer Heppel, of Coire, in Switzerland.* *Letters Patent sealed.*

NORTON. 21st February 1855. — 383. FREDERICK WILLIAM NORTON, of Edinburgh, in the County of Mid-Lothian, North Britain, Manufacturer, for an invention for—"Improvements in the manufacture of printed or coloured warp fabrics." *Provisional protection only.*

PIDCOCK. 21st February 1855. — 384. JOHN HYDE PIDCOCK, of Leighton Buzzard, in the County of Beds, Civil Engineer, for an invention for—"An improved method of propelling and steering vessels, is also applicable to the forcing and directing of liquids and fluids." *Letters Patent sealed.*

HACKETT. 21st February 1855. — 385. JOHN HACKETT, of Derby, in the County of Derby, Manufacturer, for an invention for—"The employment of a new and improved fabric or fabrics for the making or manufacturing either wholly or partially, of garments or part or parts of garments, or for appendages to garments for the purposes of wearing apparel for the use of men, women, or children." *Stopped at first reference.*

PRINCE. 21st February 1855.

386. FREDERIC PRINCE, of No. 3, South Parade, Chelsea, in the County of Middlesex, for an invention for—"Improvements in fire-arms and ordnance." *Letters Patent sealed.*

MAYNES. 21st February 1855.

387. WILLIAM MAYNES, of Stockport, in the County of Chester, Agent, for an invention for—"Certain improvements in self acting temples to be used in weaving." *Stopped at fiat.*

NOBLE. 21st February 1855.

388. GEORGE NOBLE, of Sunderland, for an invention for—"Improvements in the manufacture of fire bricks." *Letters Patent sealed.*

PRINCE. 21st February 1855.

389. PAUL PRINCE, of Derby, in the County of Derby, Railway Inspector, for an invention for—"An improvement in the patterns employed in making moulds for railway chairs." *Letters Patent sealed.*

LOW. 21st February 1855.

390. CHARLES LOW, of Bodowen, Dolgelly, North Wales, Gentleman, for an invention for—"Certain improvements in the extraction of gold from its ores." *Letters Patent sealed.*

HARRISON. 22nd February 1855.

391. THOMAS HARRISON, of Hackney, in the County of Middlesex, Ship owner, for an invention for—"A composition for covering and protecting the bottoms of ships and vessels." *Letters Patent sealed.*

KIRRAGE. 22nd February 1855.

392. WILLIAM KIRRAGE, of No. 10, Edmund Street, Camberwell, in the County of Surrey, Surveyor, for an invention for—"Consuming or burning smoke." *Provisional protection only.*

M'CONNELL 22nd February 1855.

393. ROBERT M'CONNELL, of Glasgow, in the County of Lanark, North Britain, Bleacher, for an invention for—"Improvements in finishing or dressing textile fabrics." *Letters Patent sealed.*

BUNTEN. LAMB. 22nd February 1855.

394. JAMES BUNTEN, of Glasgow, in the County of Lanark, North Britain, Timber merchant, and GEORGE LAMB, of the same place, Joiner, for an invention for—"Improvements in cutting and shaping wood." *Stopped at fiat.*

CLARKE. 22nd February 1855.

395. PETER CLARKE, of the City of Manchester, in the County of Lancaster, Engineer, for an invention for—"Improvements applicable to locomotive steam-engines." —*A communication.* *Provisional protection only.*

NEILSON. 22nd February 1855.

396. WALTER NEILSON, of Glasgow, in the County of Lanark, North Britain, Engineer, for an invention for—"Improvements in locomotive engines." *Letters Patent sealed.*

EAST. MILLS. 22nd February 1855.

397. FREDERICK WILLIAM EAST, of 214, Bermondsey Street, Southwark, and JOHN MILLS, of William Street, Neat Street, Cobourg Road, Old Kent Road, for an invention for—"Improvements in destroying the noxious vapours arising from boiling oil, bones, and other matters, in the open air." *Letters Patent sealed.*

HARTCLIFFE. WATERHOUSE. 23rd February 1855.

398. WILLIAM HARTCLIFFE, of Salford, in the County of Lancaster, Machinist, and JOSEPH WATERHOUSE, of the City of Manchester, Manager, for an invention for—"Certain improvements in looms for weaving." *Letters Patent sealed.*

TAYLOR. 23rd February 1855.

399. ANDREW TAYLOR, of 21, Duke Street, Manchester Square, in the County of Middlesex, Gentleman, for an invention for—"Self acting railway signals and apparatus connected therewith, for improving the means of communication between persons in charge of, and the drivers of trains, and to render collisions less frequent on railways." *Provisional protection only.*

NORTON. 23rd February 1855.

400. JOHN NORTON, of Dublin, in the County of Dublin, Ireland, Esquire, for an invention for—"Improvements in the construction of cartridges for fire-arms." *Letters Patent sealed.*

RANKINE. THOMSON. 23rd February 1855.

401. WILLIAM JOHN MACQUORN RANKINE, of No. 59, Saint Vincent Street, in the City of Glasgow, Civil Engineer, and JOHN THOMSON, also of No. 59, Saint Vincent Street, in the said City, sub-assistant Engineer to the East Indian Railway Company, for an invention for—"Improvements in machinery for laying subaqueous electrical conductors for telegraphic communication." *Letters Patent sealed.*

ZAHN.
23rd February 1855.

402. WILLIAM HENRY ZAHN, of 13, Norfolk Street, Strand, London, for an invention for—"Certain improvements in windmills."—*A communication.*
Letters Patent sealed.

BENNETT.
23rd February 1855.

403. NICHOLAS BENNETT, of 7, Furnival's Inn, Holborn, in the County of Middlesex, Gentleman, for an invention for—"A substitute for the scaffolding at present employed in and for the erecting and repairing of buildings, which is also applicable in part to the ventilation of buildings."—*A communication.* *Provisional protection only.*

GARDNER.
23rd February 1855.

404. JOHN EDMUND GARDNER, of the firm of H. and J. Gardner, of the Strand, in the City of Westminster, Manufacturers, for an invention for—"Improvements in portable cooking apparatus and in cooking lamps." *Letters Patent sealed.*

ALLAIRE.
23rd February 1855.

405. SIMON MARTIN ALLAIRE, Hatter, of Paris, in the French Empire, for an invention for—"Certain improvements in manufacturing hats, caps, and bonnets."
Provisional protection only.

LOOKER.
23rd February 1855.

406. BENJAMIN LOOKER, Junior, of Kingston-upon-Thames, in the County of Surrey, for an invention for—"Improvements in ventilating stables and other buildings." *Letters Patent sealed.*

THOMPSON.
23rd February 1855.

407. NATHAN THOMPSON, Junior, of New York, for an invention for—"Improvements in constructing life boats." *Letters Patent sealed.*

LEBEL.
FOURNIOL.
REMYON.
24th February 1855.

408. VICTOR JOSEPH LEBEL, of Paris, JEAN FOURNIOL, also of Paris, Printers, and JEAN BAPTISTE REMYON, also of Paris, Merchant, for an invention for—"Improvements in typographic presses." *Letters Patent sealed.*

MURRAY.
24th February 1855.

409. BARNABY ANGELO MURRAY, of Dublin, Professor of languages, for an invention for—"Improvements in winding, doubling, and twisting silk, flax, and other fibrous substances." *Letters Patent sealed.*

JOHNSON.
24th February 1855.

410. JOHN HENRY JOHNSON, of 47, Lincoln's Inn Fields, in the County of Middlesex, and of Glasgow, North Britain, Gentleman, for an invention for—"Improvements in fountain pens."—*A communication from Newell A. Prince, of New York, in the United States of America.* *Letters Patent sealed.*

WHITE.
24th February 1855.

411. JOHN HAINES WHITE, of Manchester, in the County of Lancaster, Dentist, for an invention for—"An improvement in the method of applying artificial teeth."
Letters Patent sealed.

PLAYER.
PLAYER.
JACKSON.
24th February 1855.

412. JOSEPH PLAYER, JOHN PHILLIPS PLAYER, and LUKE DUNCAN JACKSON, all of 2, Winchester Buildings, for an invention for—"Machinery or apparatus for drying tan, peat, and such like substances." *Provisional protection only.*

RUSSELL.
24th February 1855.

413. JOHN SCOTT RUSSELL, of Mill Wall, for an invention for—"An improvement in the construction of ships or vessels to facilitate the use of water as ballast."
Letters Patent sealed.

BROWN.
26th February 1855.

414. WILLIAM BROWN, of No. 113, Albany Road, Old Kent Road, in the parish of Saint George, Camberwell, in the County of Surrey, Engineer, for an invention for—"Certain improvements in machinery for printing." *Letters Patent sealed.*

MARTIN.
SMETHURST.
26th February 1855.

415. HAMILTON MARTIN, and JOSEPH SMETHURST, both of the Guide Bridge Iron works, near the City of Manchester, Engineers, for an invention for—"Improvements in the construction of fences or casings for shafts, pulleys, and other parts of machinery." *Letters Patent sealed.*

BELLFORD.
26th February 1855.

416. AUGUSTE EDOUARD LORADOUX BELLFORD, of 32, Essex Street, Strand, London, Patent agent, for an invention for—"Certain improvements in the application of breaks on railways."—*A communication from W. Loughridge, of Wererton, United States.* *Letters Patent sealed.*

ANDRE.
26th February 1855.

417. PIERRE ANDRE, Merchant, of Paris, Empire of France, and of 16, Castle Street, Holborn (City) London, for an invention for—"Certain improvements in grinding mills." *Provisional protection only.*

BELLFORD. 26th February 1855.

418. AUGUSTE EDOUARD LORADOUX BELLFORD, of 32, Essex Street, Strand, London, Patent agent, for an invention for—"Certain improvements in the manufacture of soda."—*A communication.* *Letters Patent sealed.*

SPURWAY. 26th February 1855.

419. JAMES WILLIAM SPURWAY, of 4, Monmouth Place, New Cross, Deptford, for an invention for—"A travelling pass." *Provisional protection only.*

BROWN. 26th February 1855.

420. ALEXANDER BROWN, of Tarbet, in the County of Dumbarton, North Britain, Engraver, for an invention for—"Improvements in the manufacture of paper and in the production of textile materials." *Letters Patent sealed.*

ROBERTS. 26th February 1855.

421. CHARLES HENRY ROBERTS, of 3, Cornwall Road, Stamford Street, Lambeth, in the County of Surrey, for an invention for—"An improvement in the manufacture of rubbers for painters and others." *Letters Patent sealed.*

NASH. 26th February 1855.

422. THOMAS NASH, Junior, of 134, Great Dover Road, in the parish of Saint Mary, Newington, in the County of Surrey, Brush manufacturer, for an invention for —"Improvements in painting-brushes, applicable also to other brushes and to brooms." *Letters Patent sealed.*

GILBEE. 27th February 1855.

423. WILLIAM ARMAND GILBEE, of 4, South Street, Finsbury, London, and 39, Rue de l'Echiquier, Paris, Gentleman, for an invention for—"An improved process of manufacturing alcohol from the stem and ear of maize."—*A communication.* *Provisional protection only.*

GILBEE. 27th February 1855.

424. WILLIAM ARMAND GILBEE, of 4, South Street, Finsbury, London, and 39, Rue de l'Echiquier, Paris, Gentleman, for an invention for—"An improved soap to which he gives the name of Saponitoline."—*A communication.* *Letters Patent sealed.*

BRODIE. 27th February 1855.

425. JAMES BRODIE, of Bow of Fife, in the County of Fife, North Britain, Clerk, for an invention for—"Improvements in and applicable to tongs, pliers, vices, and other holding instruments." *Letters Patent sealed.*

BERCHTOLD. 27th February 1855.

426. ALFRED JEAN BERCHTOLD, Engraver, of Paris, in the French Empire, for an invention for—"Certain improvements in applying the photographic engraving on metals or other materials." *Stopped at fiat.*

GARDNER. 27th February 1855.

427. HENRY GARDNER, of No. 7, Arthur Street, Old Kent Road, in the County of Surrey, Gentleman, for an invention for—"Certain improvements in the construction of horseshoes and in shoes used for the shoeing of hoofed animals." *Provisional protection only.*

COOPER. 27th February 1855.

428. JOSEPH COOPER, of Lionel Street, Birmingham, in the County of Warwick, Brace and Bit manufacturer, for an invention for—"Certain improvements in Joiners' braces, and in the mode of forming or partially forming the various bits to be used with such or any other kind of brace." *Provisional protection only.*

FOTHERGILL. WEILD. 27th February 1855.

429. BENJAMIN FOTHERGILL, Engineer and Machinist, and WILLIAM WEILD, Engineer, both of the City of Manchester, in the County of Lancaster, for an invention for—"Improvements in machinery for combing cotton-wool, flax, silk, and other fibrous materials." *Letters Patent sealed.*

CAMPION. 27th February 1855.

430. WILLIAM CAMPION, of Nottingham, for an invention for—"Certain improvements in knitting machinery." *Letters Patent sealed.*

BLAKELY. 27th February 1855.

431. ALEXANDER THEOPHILUS BLAKELY, of Little Ryder Street, St. James's, in the County of Middlesex, Captain of the Royal Artillery, for an invention for—"Improvements in ordnance." *Letters Patent sealed.*

HELLIWELL. BARKER. 28th February 1855.

432. THOMAS HELLIWELL, of Greenhirst Hay, near Todmorden, in the County of York, Cotton spinner and manufacturer, and JOSEPH BARKER, of Houghstone Mill, near Todmorden aforesaid, Manufacturer, for—"An invention for preserving pickers and pickersticks, and for preventing cops being knocked off the spindle in the shuttle, during the process of weaving in the power loom." *Letters Patent sealed.*

SYMONS. 28th February 1855.

433. ALEXANDER SYMONS, of the Strand, in the County of Middlesex, Gentleman, for an invention for—"An egg cooking apparatus." *Letters Patent sealed.*

REDDIE. 28th February 1855.

434. JAMES REDDIE, of Anstruther, in the County of Fife, North Britain, Ironmonger, for an invention for—"An improved metal shovel."—*Complete specification. Letters Patent sealed.*

ALLARTON. 28th February 1855.

435. FREDERIC ALLARTON, of High Street, Southwark, in the County of Surrey, Chemist &c., for an invention for—"Certain improvements in the method of administering iron as a remedy." *Provisional protection only.*

BRICKLES. THORPE. LILLIE. 28th February 1855.

436. JESSE BRICKLES, and THOMAS THORPE, Manufacturers, and JOSEPH LILLIE, Engineer, all of the City of Manchester, for an invention for "Improvements in the manufacture of plain and ornamental woven fabrics." *Letters Patent sealed.*

HIGGIN. 28th February 1855.

437. JAMES HIGGIN, of the City of Manchester, in the County of Lancaster, Manufacturing chemist, for an invention for "Improvements in treating certain waste soap liquors and obtaining therefrom certain products applicable to purposes not hitherto known." *Letters Patent sealed.*

HOLROYD. 28th February 1855.

438. WARD HOLROYD, of Queen's Head, near Halifax, in the County of York, Manager, for an invention for—"An improved method of 'Fencing' horizontal and other shafts in factories and other places where such fencing may be required, for the purpose of preventing accidents." *Stopped at first.*

STANSBURY. 28th February 1855.

439. CHARLES FREDERICK STANSBURY, of the firm of Nourse & Co., American and General Patent agents, of No. 17, Cornhill, in the City of London, for an invention for "An improved mode of ringing fog bells."—*A communication from Charles G. Page, of Washington, in the United States of America. Letters Patent sealed.*

GEDGE. 28th February 1855.

440. JOHN GEDGE, of No. 4, Wellington Street South, Strand, in the County of Middlesex, Patent agent, for an invention for "Improvements in apparatus or machinery for stopping or retarding vehicles used on railways."—*A communication from Sophia Richter, of Gorlitz, in the Kingdom of Prussia. Letters Patent sealed.*

MILLER. WAKEFIELD. 28th February 1855.

441. GEORGE MACKAY MILLER, of Inchicore, County of Dublin, Civil Engineer, and JOHN WAKEFIELD, of the same place, Engineer, for an invention for—"Improvements in pistons for engines driven by steam or other elastic fluid, which improvements are also applicable to the pistons or plungers of reciprocating pumps." *Letters Patent sealed.*

GOODE. BROUGH. 28th February 1855.

442. BENJAMIN WILLIAM GOODE, of Birmingham, in the County of Warwick, Manufacturer, and NEHEMIAH BROUGH, of Birmingham aforesaid, Machinist, for an invention for "A new or improved fire-arm." *Provisional protection only.*

WILSON. 28th February 1855.

443. FISCHER ALEXANDER WILSON, of Kennington, in the County of Surrey, Gentleman, for an invention for "Improvements in closing and unclosing bottles and other vessels used for containing liquids, also in the modes of inserting, securing, and liberating liquids therein and therefrom." *Letters Patent sealed.*

BELLHOUSE. COWBURN. 28th February 1855.

444. EDWARD TAYLOR BELLHOUSE, of the Eagle Foundry, Manchester, in the County of Lancaster, Engineer, and THOMAS COWBURN, of the same place, Engineer, for an invention for "Improvements in vacuum valves and safety valves." *Provisional protection only.*

JENNINGS. 28th February 1855.

445. HENRY CONSTANTINE JENNINGS, of 8, Great Tower Street, in the City of London, Practical chemist, for an invention for—"An improvement in the manufacture of soap." *Letters Patent sealed.*

COOK. 28th February 1855.

446. THOMAS COOK, Lieut. R.N., Professor of fortifications, of Addiscombe, in the County of Surrey, for an invention for—"Improvements in working punkas and apparatus for agitating air in churches, hospitals, and other buildings." *Letters Patent sealed.*

RITCHIE. 28th February 1855.

447. GEORGE RITCHIE, of New Cross, Deptford, in the County of Kent, for an invention for—"An improvement in the manufacture of linings for articles of dress." *Provisional protection only.*

PENNEY. 28th February 1855.

448. HENRY PENNEY, of York Place, Baker Street, Portman Square, in the County of Middlesex, Varnish maker, for an invention for—"An improved mode of treating vulcanized or cured india-rubber."—*Letters Patent sealed; no specification filed.*

BLACKBURN. 28th February 1855.

449. BEWICKE BLACKBURN, of Clapham Common, in the County of Surrey, for an invention for—"Improvements in the manufacture of pipes."—*Letters Patent sealed.*

BROOMAN. 1st March 1855.

450. RICHARD ARCHIBALD BROOMAN, of 166, Fleet Street, in the City of London, Patent agent, for an invention for—"An improvement in rollers used in spinning."—*A communication.* *Letters Patent sealed.*

RAMSBOTTOM. 1st March 1855.

451. JOHN RAMSBOTTOM, of Accrington, in the County of Lancaster, Engineer, for an invention for—"Improvements in steam-engines and obtaining motive-power more economically." *Provisional protection only.*

VIGOUREUX. 1st March 1855.

452. STANISLAS VIGOUREUX, Manufacturer, of Rheims, a Town in the French Empire, for an invention for—"Certain improvements in printing, ornamenting, and dressing woven and textile fabrics." *Letters Patent sealed.*

SADLEIR. 1st March 1855.

453. THOMAS SADLEIR, of Mulla Tullamore, Esquire, for an invention for—"An improved apparatus and method of manufacturing charcoal, which can also be applied to cooking and other purposes." *Letters Patent sealed.*

MILLER. 1st March 1855.

454. GEORGE MACKAY MILLER, of Inchicore, County of Dublin, Civil Engineer, for an invention for—"Improvements in axles and axle-boxes of engines and carriages in use on railways." *Letters Patent sealed.*

SMALL. 1st March 1855.

455. ANDREW SMALL, of Glasgow, in the County of Lanark, North Britain, Ship chandler, for an invention for—"Improvements in marine compasses and in apparatus applicable thereto." *Letters Patent sealed.*

KENNEDY. 1st March 1855.

456. THOMAS KENNEDY, of Kilmarnock, in the County of Ayr, North Britain, Gun manufacturer, for an invention for—"Improvements in wadding for fire-arms." *Stopped at fiat.*

JOHNSON. 1st March 1855.

457. JOHN HENRY JOHNSON, of 47, Lincoln's Inn Fields, in the County of Middlesex, and of Glasgow, North Britain, Gentleman, for an invention for—"Improvements in machinery or apparatus for rolling and shaping metals."—*A communication.* *Provisional protection only.*

LEWIS. 2nd March 1855.

458. JAMES LEWIS, of Abergavenny, in the County of Monmouth, Ironmonger, for an invention for—"Improvements in stench traps." *Letters Patent sealed; no specification filed.*

DODDS. LEAKE. FLETCHER. 2nd March 1855.

459. THOMAS DODDS, and RICHARD LEAKE, of No 4, Horse Shoe Court, Ludgate Hill, London, Lithographers &c., and WILLIAM FLETCHER, of No. 2, Saint James Street, Old Kent Road, London, Engineer, for an invention for—"Certain improvements in the construction of a machine for heating all kinds and description of furnaces with coal or other gases." *Stopped at fiat.*

LOWRY. 2nd March 1855.

460. GEORGE LOWRY, of the City of Manchester, Machinist, for an invention for—"Improvements in machinery for preparing and spinning flax, hemp, and other fibrous materials." *Letters Patent sealed.*

DUMERY. 2nd March 1855.

461. CONSTANT JOUFFROY DUMERY, of No. 54, Rue du Château d'eau, Paris, France, Civil Engineer, for an invention for—"Improvements in alarm and safety whistles for steam generators." *Letters Patent sealed.*

STANSBURY. 2nd March 1855.

462. CHARLES FREDERICK STANSBURY, of the firm of Nourse & Co., American and General Patent agents, of No. 17 and 18, Cornhill, London, for an invention for—"An improved drill and bit stock."—*A communication.* *Provisional protection only.*

JOHNSON. 2nd March 1855.

463. JOHN HENRY JOHNSON, of 47, Lincoln's Inn Fields, in the County of Middlesex, and of Glasgow, North Britain, Gentleman, for an invention for—"Improvements in slide valves for steam-engines."—*A communication from Erasmus D. Leavitt the younger, of Lowell, in the United States of America.* *Stopped at fiat.*

HODGES. 2nd March 1855.

464. WILLIAM HODGES, of the Town and County of Stafford, Boot and shoe manufacturer, for an invention for—"Certain improvements in boots and shoes." *Letters Patent sealed.*

JOHNSON. 2nd March 1855. **465.** JOHN JOHNSON, of Bow, in the County of Middlesex, Drysalter, for an invention for—"Improvements in temporary rudders." *Letters Patent sealed.*

TAUNTON. 2nd March 1855. **466.** WILLIAM GEORGE HENRY TAUNTON, of Liverpool, in the County of Lancaster, Civil Engineer and patent windlass purchase manufacturer, for an invention for—"Improvements in pumps, pump gear, and pump buckets." *Letters Patent sealed.*

NEWTON. 2nd March 1855. **467.** ALFRED VINCENT NEWTON, of the Office for Patents, 66, Chancery Lane, in the County of Middlesex, Mechanical draughtsman, for an invention for—"Improvements in the construction of printing presses."—*A communication.* *Letters Patent sealed.*

CONEY. 2nd March 1855. **468.** JOHN CONEY, of Newhall Hill, Birmingham, in the County of Warwick, Gun maker, for an invention for—"An improved construction of gun lock." *Letters Patent sealed.*

WOODLEY. SWINFORD. 3rd March 1855. **469.** JOHN WOODLEY, and HENRY HERBERT SWINFORD, both of Limehouse, in the County of Middlesex, Coopers, for an invention for—"Improvements in apparatus for indicating and giving alarm in cases of fire." *Letters Patent sealed.*

VABRE. 3rd March 1855. **470.** ANDRÉ BERNARD VABRE, of Saint Thomas's Street East, in the County of Surrey, Civil Engineer, for an invention for—"Improvements in floors and roofs."—*A communication.* *Provisional protection only.*

DICKINSON. PLATTS. 3rd March 1855. **471.** BENJAMIN DICKINSON, and JOHN PLATTS, of Clough House Mill, near Huddersfield, in the County of York, Cloth dressers, for an invention for—"Improvements in machinery or apparatus used in finishing woollen and other textile fabrics." *Letters Patent sealed.*

HUNT. 3rd March 1855. **472.** WILLIAM HUNT, of Tipton, in the County of Stafford, Manufacturing chemist, for an invention for—"Improvements in utilizing certain compounds produced in the process of galvanizing iron, and in the application of the same and similar compounds to certain useful purposes." *Letters Patent sealed.*

RYLAND. 3rd March 1855. **473.** THOMAS HENRY RYLAND, of Birmingham, in the County of Warwick, Manufacturer, for an invention for—"An improvement or improvements in the manufacture of neck and dress chains, bracelets, and other ornamental articles of dress, and in links used in the manufacture of the said chains and other ornamental articles of dress." *Provisional protection only.*

JOHNSON. 3rd March 1855. **474.** WILLIAM JOHNSON, of 47, Lincoln's Inn Fields, in the County of Middlesex, and of Glasgow, in the County of Lanark, North Britain, Civil Engineer, for an invention for—"Improvements in cleansing and preparing fibrous materials."—*A communication from Samuel W. Brown, of Lowell, Massachusetts, in the United States of America.* *Letters Patent sealed.*

REVELL. 3rd March 1855. **475.** JOSEPH REVELL, of Duckinfield, in the County of Chester, Plasterer, for an invention for—"Certain improvements in machinery or apparatus for propelling vessels." *Stopped at fiat.*

WILLIAMS. 3rd March 1855. **476.** JOHN OCTAVIUS WILLIAMS, of Torquay, in the County of Devon, Ironmonger, for an invention for—"Improvements in camp stoves and cooking apparatus." *Provisional protection only.*

METCALFE. 3rd March 1855. **477.** THOMAS METCALFE, of High Street, Camden Town, in the County of Middlesex, Gentleman, for an invention for—"Improvements in window-sashes." *Provisional protection only.*

BOBY. BRIDGMAN. 3rd March 1855. **478.** ROBERT BOBY, of Bury Saint Edmunds, Machinist, and THOMAS COOPER BRIDGMAN, of the same Borough, in the County of Suffolk, Chemist, for an invention for—"Improvements in corn dressing and winnowing machines."—*Letters Patent sealed.*

CARTER. 3rd March 1855. **479.** TIMOTHY WALKER CARTER, of the State of Massachusetts, of the United States of America, for an invention for—"New and useful improvements in repeating fire-arms."—*A communication from Joshua Stevens, of the aforesaid State of Massachusetts.* *Letters Patent sealed.*

ILES.
3rd March 1855.

480. CHARLES ILES, of Peel Works, Birmingham, in the County of Warwick, Manufacturer, for an invention for—"Improvements in apparatus for cutting, burnishing, and polishing cylindrical surfaces of metal and other substances."
Letters Patent sealed.

ILES.
3rd March 1855.

481. CHARLES ILES, of Peel Works, Birmingham, in the County of Warwick, Manufacturer, for an invention for—"Improvements in the manufacture of tubes, knobs, and handles of doors, rollers of castors, and reels for cotton and thread."
Letters Patent sealed.

GLEDHILL.
GLEDHILL.
5th March 1855.

482. JOHN GLEDHILL, of Congleton, Cheshire, Machine joiner, and ROBERT GLEDHILL, of Halifax, in the County of York, Mechanic, for an invention for—"Improvements in the preparation of silk, flax, and other fibrous substances, and in the machinery or apparatus employed therein, part of which is applicable to the preparing of wool for combing." *Letters Patent sealed.*

PAINE.
RYAN.
5th March 1855.

483. LEWIS JAMES PAINE, of Camberwell, and JOHN RYAN, of Hatcham, for an invention for—"Improved portable utensils such as buckets, canteens, baths, and other similar waterproof articles, for containing liquids, also applicable for portable life boats, buoys, or land marks, and other compressible articles."—*Letters Patent sealed.*

JOHNSON.
5th March 1855.

484. WILLIAM JOHNSON, of 47, Lincoln's Inn Fields, in the County of Middlesex, and of Glasgow, North Britain, Civil Engineer, for an invention for—"Improvements in coating iron and steel wire with other metals or alloys."—*A communication from Alexandre Désiré, Eugene Boucher, and Adrien Muller.* *Letters Patent sealed.*

DAWSON.
5th March 1855.

485. JOHN DAWSON, of Northwich, in the County of Chester, Saddler, for an invention for—"An improvement in saddles." *Provisional protection only.*

HOTCHKISS.
5th March 1855.

486. ANDREW HOTCHKISS, of the City of New York, United States of America, for an invention for—"Improvements in projectiles." *Letters Patent sealed.*

BROOMAN.
5th March 1855.

487. RICHARD ARCHIBALD BROOMAN, of 166, Fleet Street, in the City of London, Patent agent, for an invention for—"Improvements in projectiles."—*A communication.*
Letters Patent sealed.

GARNIER.
5th March 1855.

488. ARSÈNE LOUIS GARNIER, of the Island of Guernsey, Photographic artist, for an invention for—"An improved process for producing photographic pictures, which he intends to denominate 'Systême Garnier de Photocherographie coloriée.'"
Letters Patent sealed.

LEWIS.
5th March 1855.

489. JOHN LEWIS, of Elizabethtown, in the State of New Jersey, United States of America, for an invention for—"Improvements in rigging and sparring vessels."
Letters Patent sealed.

DE GUINON.
5th March 1855.

490. RICHARD VAN VALKENBURGH DE GUINON, of Brooklyn, in the County of Kings, and State of New York, in the United States of America, for an invention for—"Improvements in anchors." *Letters Patent sealed.*

FOWLE.
5th March 1855.

491. CHARLES LOWELL FOWLE, of the State of Massachusetts, of the United States of America, for an invention for—"New and useful improvements in machinery for sewing cloth, leather, or other material."—*A communication from Edwin A. Forbrish, a resident of the said State of Massachusetts.*

WOOD.
5th March 1855.

492. JAMES WOOD, of 30, Barbican, for an invention for—"Improvements in ornamenting woven fabrics for bookbinders and others." *Letters Patent sealed.*

BELLFORD.
5th March 1855.

493. AUGUSTE EDOUARD LORADOUX BELLFORD, of 32, Essex Street, Strand, London, Patent agent, for an invention for—"Certain new and useful improvements in the oscillating steam-engine."—*A communication from John Andrew Reed, of New York, in the United States of America.* *Letters Patent sealed.*

HYDE.
6th March 1855.

494. WILLIAM HYDE, of Spring Hill, Ohio, in the United States of America, but now of 17, Cornhill, in the City of London, for an invention for—"Improved marine life preserving apparatus." *Letters Patent sealed.*

JENKINS.
6th March 1855.

495. WILLIAM JENKINS, of Neath Abbey, in the County of Glamorgan, Moulder, for an invention for—"An improved method of casting copper cylinders, copper vessels, and other copper forms." *Provisional protection only.*

PARSONS. 6th March 1855.

496. PERCEVAL MOSES PARSONS, of Duke Street, Adelphi, in the County of Middlesex, Civil Engineer, for an invention for—"Certain improvements in fire-arms and projectiles." *Stopped at fiat.*

BOWLSBY. 6th March 1855.

497. GEORGE WASHINGTON BOWLSBY, of the Castle Hotel, Oxford Street, in the County of Middlesex, for an invention for—"An improvement in closing the windage when discharging cannon." *Provisional protection only.*

PLAYER. JACKSON. 6th March 1855.

498. JOSEPH PLAYER, and LUKE DUNCAN JACKSON, of 2, Winchester Buildings, in the City of London, for an invention for—"Improvements in the construction of furnaces for the prevention of smoke." *Provisional protection only.*

BURR. 6th March 1855.

499. ADAM JOHN BURR, of 42, Alfred Road, Paddington, in the County of Middlesex, Civil Engineer, for an invention for—"Improvements in gas-meters." *Provisional protection only.*

LAWSON. THOMPSON. 6th March 1855.

500. THOMAS LAWSON, Engineer, and MATTHEW THOMPSON, Fire brick manufacturer, both of Gateshead-on-Tyne, in the County of Durham, for an invention for—"Improvements in the consumption and prevention of smoke." *Provisional protection only.*

TARDIF. 6th March 1855.

501. EUGENE TARDIF, of Bruxelles, in the Kingdom of Belgium, Merchant, for an invention for—"An improved construction of numbering apparatus." *Letters Patent sealed.*

KENNEDY. 7th March 1855.

502. JOHN KENNEDY, of Liverpool, in the County of Lancaster, Boot and shoe maker, for an invention for—"Improvements in the manufacture of boots and shoes." *Letters Patent sealed.*

HIGGINS. WHITWORTH. 7th March 1855.

503. JAMES HIGGINS, of Salford, in the County of Lancaster, Machine maker, and THOMAS SCHOFIELD WHITWORTH, of the same place, Mechanic, for an invention for—"Improvements in the manufacture of small arms, part of which improvements is also applicable to hardening other articles of metal." *Stopped at fiat.*

COOPER. 7th March 1855.

504. JOSEPH COOPER, of Birmingham, in the County of Warwick, Brace and Bit manufacturer, for an invention for—"Certain improvements in Joiners' braces, and in the mode of forming or partially forming the various bits to be used with such or any other kind of brace." *Letters Patent sealed.*

WEILD. 7th March 1855.

505. WILLIAM WEILD, of the City of Manchester, in the County of Lancaster, Machinist, for an invention for—"Improvements in looms or machinery for weaving pile fabrics." *Letters Patent sealed.*

JOHNSON. 7th March 1855.

506. JOHN HENRY JOHNSON, of 47, Lincoln's Inn Fields, in the County of Middlesex, and of Glasgow, North Britain, Gentleman, for an invention for—"Improvements in the manufacture of hard india-rubber, and of articles composed of that material."—*A communication from Charles Morey, of Paris, in the Empire of France, Esquire.* *Provisional protection only.*

SLOUGHGROVE. WHEATLEY. 7th March 1855.

507. JOHN WILLIAM SLOUGHGROVE, and JAMES HENRY WHEATLEY, of Windsor Street, Islington, Engineers, for an invention for—"Improvements in smoke consuming furnaces." *Letters Patent sealed.*

NAPIER. 7th March 1855.

508. JAMES MURDOCH NAPIER, of York Road, Lambeth, in the County of Surrey, for an invention for—"Improvements in machinery for manufacturing balls or projectiles for small arms." *Provisional protection only.*

HACKETT. 7th March 1855.

509. JOHN HACKETT, of Derby, in the County of Derby, Manufacturer, for an invention for—"The employment of a new or improved fabric or fabrics for the manufacture of rick covers and for other useful articles." *Stopped at first reference.*

WILSON. HORSLEY. 7th March 1855.

510. JOHN WILSON, of Hurlet, in the County of Renfrew, Esquire, and JOHN HORSLEY, of Cheltenham, in the County of Gloucester, Analytical Chemist, for an invention for—"Improvements in the manufacture of iodine and iodides, and of a pigment or pigments from certain residual products in such manufacture." *Provisional protection only.*

FLECHELLE. 8th March 1855.

511. BARTHELEMY LOUIS FRANÇOIS XAVIER FLECHELLE, Gentleman, of Paris, Empire of France, for an invention for—"Improvements in flat purses (portes monnaie)." *Provisional protection only.*

BATAILLE. 8th March 1855.

512. LOUIS EMILE BATAILLE, Civil Engineer, of Paris, Empire of France, for an invention for—"Improvements in looms for weaving pile fabrics."—*Letters Patent sealed.*

REITHEIMER. 8th March 1855.

513. GUSTAV CHARLES REITHEIMER, of Holyhead, in the Isle of Anglesea, North Wales, Civil Engineer, for an invention for—"Improvements in the means of loading or discharging fire-arms." *Stopped at fiat.*

WALKER. 8th March 1855.

514. THOMAS WALKER, of Birmingham, in the County of Warwick, Engineer, for an invention for—"Improvements in rotary engines to be worked by steam or other fluid." *Letters Patent sealed.*

CLAUDET. 8th March 1855.

515. ANTOINE FRANÇOIS JEAN CLAUDET, of Regent Street, in the parish of Saint James, Westminster, in the County of Middlesex, Photographic artist, for an invention for—"Improvements in stereoscopes." *Letters Patent sealed.*

HAZELDINE. 8th March 1855.

516. GEORGE HAZELDINE, of Lant Street, Southwark, in the County of Surrey, Coach maker, for an invention for—"Improvements in wheel carriages and in the wheels thereof." *Letters Patent sealed.*

KRUPP. 8th March 1855.

517. ALFRED KRUPP, of Essen, in the Kingdom of Prussia, Cast steel manufacturer, for an invention for—"Certain improvements in the construction of railway wheels." *Letters Patent sealed.*

BROOKS. WALTER. 8th March 1855.

518. JAMES BROOKS, of Bury, in the County of Lancaster, Mechanic, and WILLIAM STEPHEN WALTER, of the same place, Millwright, for an invention for—"Improvements in looms for weaving." *Provisional protection only.*

TAYLOR. 8th March 1855.

519. JOHN TAYLOR, of Spring Grove, Isleworth, in the County of Middlesex, Architect, for an invention for—"An improvement in packing and preserving eggs and other articles of food." *Letters Patent sealed; no specification filed.*

GILBERT. 8th March 1855.

520. HENRY GILBERT, of Kensington, in the County of Middlesex, for an invention for—"Improvements in hurdles." *Letters Patent sealed.*

AITKEN. AITKEN. HASLAM. 8th March 1855.

521. JOHN AITKEN, and SERVETUS AITKEN, Manufacturers, and JOHN HASLAM, Manager, all of Bacup, in the County of Lancaster, for an invention for—"Improvements in machines used for preparing, spinning, and doubling cotton-wool, flax, silk, and other fibrous materials." *Letters Patent sealed.*

NORTON. 8th March 1855.

522. JOHN NORTON, of Dublin, in the County of Dublin, Ireland, Esquire, for an invention for—"Improvements in fire-arms and ammunition."—*Letters Patent sealed.*

FOSTER. 8th March 1855.

523. WILLIAM FOSTER, of Black Dike Mills, near Bradford, in the County of York, Spinner and Manufacturer, for an invention for—"Improvements in machinery or apparatus for drying wool and other fibrous substances."—*Provisional protection only.*

FOSTER. 8th March 1855.

524. WILLIAM FOSTER, of Black Dike Mills, near Bradford, in the County of York, Spinner and Manufacturer, for an invention for—"Improvements in machinery or apparatus for cleansing wool and other fibrous materials." *Letters Patent sealed.*

BERNARD. 8th March 1855.

525. JULIAN BERNARD, of Club Chambers, Regent Street, in the County of Middlesex, Gentleman, for an invention for—"Improvements in the manufacture of boots and shoes or other coverings for the feet, and in the machinery or apparatus to be employed therein." *Letters Patent sealed*

GERARD. 8th March 1855.

526. JOHN GERARD, of Guernsey, for an invention for—"A portable floating pier or bridge separating into sections, which are designed and adapted for forming floating vessels, also fixed and moveable structures on land, such as sheds and vehicles." *Provisional protection only.*

WHITE. 9th March 1855.

527. GEORGE WHITE, of 5, Lawrence Pountney Lane, Cannon Street, in the City of London, Agent, for an invention for—"Improvements in the treatment of horn and other substances of a similar nature."—*A communication.* *Stopped at fiat.*

DALL. 9th March 1855.
528. PATRIC DALL, of Woolwich, in the County of Kent, Engineer in the Royal Navy, for an invention for—"Improvements in self acting indicating and recording machanism for steam-engines." *Provisional protection only.*

BULLOUGH. 9th March 1855.
529. JAMES BULLOUGH, of Accrington, in the County of Lancaster, Manufacturer, for an invention for—"Improvements in looms and apparatus for weaving." *Letters Patent sealed.*

MURDOCH. 9th March 1855.
530. JAMES MURDOCH, of 7, Staple Inn, Holborn, in the County of Middlesex Patent agent, for an invention for—"An improved shade or reflector for lamps."—*A communication.* *Provisional protection only.*

MURDOCH. 9th March 1855.
531. JAMES MURDOCH, of 7, Staple Inn, Holborn, in the County of Middlesex, Patent agent, for an invention for—"An improved method of enlarging or reducing designs, maps, and other similar articles, also apparatus or machinery to be employed in the same."—*A communication.* *Letters Patent sealed.*

BARNETT. 9th March 1855.
532. FRANCIS AUGUSTUS BARNETT, of Nelson Street, in the City of Bristol, for an invention for—"An improvement in the manufacture of metallic bedsteads and couches for the use of invalids, applicable to bedsteads and couches made from any other material." *Provisional protection only.*

HILL. 9th March 1855.
533. THOMAS HILL, of the Birches, Stanton Lacey, in the County of Salop, Land agent, for an invention for—"Certain machinery or apparatus to be employed in the manufacture of bricks, drain pipes, tiles and other like articles, from plastic materials." *Stopped at first.*

LISTER. 9th March 1855.
534. SAMUEL CUNLIFFE LISTER, of Manningham, near Bradford, in the County of York, for an invention for—"Improvements in treating and preparing the fibres of flax and hemp and other fibrous substances for spinning." *Letters Patent sealed.*

BOUSFIELD. 9th March 1855.
535. GEORGE TOMLINSON BOUSFIELD, of Sussex Place, Loughborough Road, Brixton, in the County of Surrey, for an invention for—"Improvements in preparing wool and other fibrous substances for spinning."—*A communication from Jean Joseph Jules Pierrard.* *Letters Patent sealed.*

LISTER. 9th March 1855.
536. SAMUEL CUNLIFFE LISTER, of Manningham, near Bradford, in the County of York, for an invention for—"An improvement in combing the noil of silk waste." *Provisional protection only.*

LISTER. 9th March 1855.
537. SAMUEL CUNLIFFE LISTER, of Manningham, near Bradford, in the County of York, for an invention for—"Improvements in preparing and treating the fibres of flax and hemp." *Stopped at first reference.*

LISTER. 9th March 1855.
538. SAMUEL CUNLIFFE LISTER, of Manningham, near Bradford, in the County of York, for an invention for—"Improvements in machinery for combing wool and other fibres." *Letters Patent sealed.*

SMITH. 9th March 1855.
539. WILLIAM SMITH, of No. 10, Salisbury Street, Adelphi, in the County of Middlesex, for an invention for—"Safety harness."—*A communication.* *Letters Patent sealed.*

MICKLE. 10th March 1855.
540. WILLIAM MICKLE, of Willington, in the County of Durham, Colliery agent, for an invention for—"Improvements in the smelting or production of iron from its ore in blast furnaces." *Stopped at first.*

CLARK. 10th March 1855.
541. ALEXANDER CLARK, of Gate Street, Lincoln's Inn Fields, in the County of Middlesex, Engineer, for an invention for "Improvements in the construction and manufacture of celestial and terrestrial globes for the study of astronomy and geography." *Letters Patent sealed.*

SUNDERLAND. 10th March 1855.
542. JOSEPH SUNDERLAND, of Marsden, near Burnley, in the County of Lancaster, Grocer, for an invention for—"Improvements in self acting apparatus for controlling or regulating the flow of liquids from casks or other vessels." *Provisional protection only.*

HUGHES. 10th March 1855.
543. JOHN HUGHES, of Uskside Iron Works, Newport, Monmouth, for an invention for—"An improvement in bushing the touchholes of cannon." *Provisional protection only.*

HEAVEN. 10th March 1855.

544. CHARLES HEAVEN, of Hull, for an invention for—"Improvements in machinery used for embroidering fabrics." *Letters Patent sealed.*

BELLFORD. 10th March 1855.

545. AUGUSTE EDOUARD LORADOUX BELLFORD, of 32, Essex Street, Strand, London, Patent agent, for an invention for—"Improvements in machinery for making butt-hinges of wrought iron or other metal complete at one operation."—*A communication.* *Letters Patent sealed.*

BRISCO. HORSMAN. 10th March 1855.

546. ROBERT BRISCO, of Low Mill House, in the parish of Saint Bees, in the County of Cumberland, Esquire, and PETER SWIRES HORSMAN, of the parish of Saint John's, Beckermet, in the same County, Gentleman, for an invention for—"Certain improvements in the preparation of flax." *Provisional protection only.*

MALCOMSON. SHAW. HORN. 12th March 1855.

547. JOSEPH MALCOMSON, of Portlaw, in the County of Waterford, in Ireland, Merchant, and ROBERT SHAW, of the same place, Merchant, and WILLIAM HORN, of Mark Lane, in the City of London, Engineer, for an invention for—"Improved expansion valves for steam-engines." *Letters Patent sealed.*

BRANDON. 12th March 1855.

548. DAVID HUNTER BRANDON, of No. 11, Beaufort Buildings, Strand, in the County of Middlesex, for an invention for—"Certain improvements in machinery or apparatus for cutting fustians and other piled fabrics."—*A communication from W. R. Harris, and W. E. Baker, both of the United States of America.* *Letters Patent sealed.*

BROOKES. 12th March 1855.

549. JOHN BROOKES, of Birmingham, in the County of Warwick, Manufacturer, for an invention for—"A new or improved waistcoat." *Provisional protection only.*

HULLS. LOWE. 12th March 1855.

550. JAMES HULLS, of Plaistow, in the County of Essex, and JOHN LOWE, of Lambeth Road, in the County of Surrey, for an invention for—"Improvements in coating iron and other metals with lead." *Letters Patent sealed.*

MOSLEY. 12th March 1855.

551. GEORGE MOSLEY, of Southwark, in the County of Surrey, Button maker, for an invention for—"An improvement in buttons." *Provisional protection only.*

GILBERT. 12th March 1855.

552. JOHN GILBERT, of the Engine works, Boston Street, Hackney, in the County of Middlesex, Engineer, for an invention for—"An improved pump or pumping apparatus." *Letters Patent sealed.*

STANLEY. 12th March 1855.

553. WILLIAM PROCTER STANLEY, of Peterborough, in the County of Northampton, Agricultural implement maker, for an invention for—"An improvement in or addition to clod crushers." *Letters Patent sealed.*

SCORE. 12th March 1855.

554. WILLIAM SCORE, of Bristol, for an invention for—"An improvement in bleaching oils, fats, and resin." *Letters Patent sealed.*

NAPIER. 12th March 1855.

555. JAMES MURDOCH NAPIER, of the York Road, Lambeth, in the County of Surrey, for an invention for—"Improvements in the furnaces used in the manufacture of soda or alkali." *Letters Patent sealed.*

MACAIRE. 13th March 1855.

556. DAVID MACAIRE, Gentleman, of Paris, Empire of France, for an invention for—"Improvements in casks and taps." *Letters Patent sealed.*

BOURSERET. 13th March 1855.

557. EUGÈNE BOURSERET, Mechanician, of Paris, Empire of France, for an invention for—"Improvements in machines for manufacturing bolts, rivets, and other similar articles." *Provisional protection only.*

BELLFORD. 13th March 1855.

558. AUGUSTE EDOUARD LORADOUX BELLFORD, of 32, Essex Street, Strand, London, Patent agent, for an invention for—"Improvements in musical wind instruments."—*A communication.* *Letters Patent sealed.*

WILLETT. 13th March 1855.

559. THOMAS WILLIAM WILLETT, of 25, Belsize Road, Saint John's Wood, in the County of Middlesex, Civil Engineer, for an invention for—"Certain improvements in swimming-belts." *Provisional protection only.*

SWINGLER. 13th March 1855.	**560.** SAMUEL SWINGLER, of the parish of Aston-juxta-Birmingham, in the County of Warwick, Manufacturer, for an invention for—"An improvement or improvements in the manufacture of certain kinds of metallic spoons, forks, and ladles." *Letters Patent sealed.*
GRACIE. 13th March 1855.	**561.** JOHN GRACIE, of Stanley Terrace, Lower Road, Rotherhithe, in the County of Surrey, for an invention for—"Improvements in wood planing machines." *Letters Patent sealed.*
NEWTON. 13th March 1855.	**562.** ALFRED VINCENT NEWTON, of the Office for Patents, 66, Chancery Lane, in the County of Middlesex, Mechanical draughtsman, for an invention for—"An improved construction of engine to be actuated by the expansive force of explosive mixtures."—*A communication.* *Letters Patent sealed.*
ILIFFE. 13th March 1855.	**563.** CHARLES ILIFFE, of Birmingham, in the County of Warwick, Manufacturer, for an invention for—"Improvements in the manufacture of metallic rods, bars, and tubes." *Provisional protection only.*
COOKE. 14th March 1855.	**564.** RICHARD CAMPBELL GREEN COOKE, of New Swindon, in the County of Wilts, Gentleman, for an invention for—"Improvements in military and other cloaks." *Provisional protection only.*
RILEY. 14th March 1855.	**565.** GEORGE RILEY, of No. 12, Portland Place North, Clapham Road, in the County of Surrey, for an invention for—"An improved process for the manufacture of starch or grape sugar." *Stopped at first.*
GRAY. 14th March 1855.	**566.** HENRY GRAY, of No. 60, Clement's Lane, Pickett Street, in the City of Westminster, Printing-ink manufacturer, for an invention for—"Manufacturing from vegetable substances a material which can be applied to all adhesive surfaces for either useful or ornamental purposes, as a substitute for and in the same manner as flock is now used or applied on adhesive surfaces." *Stopped at first.*
GOODFELLOW. 14th March 1855.	**567.** BENJAMIN GOODFELLOW, of Hyde, in the County of Chester, Engineer, for an invention for—"Improvements in regulating the power for driving the pumps of hydraulic presses." *Letters Patent sealed.*
NEALE. 14th March 1855.	**568.** ROBERT NEALE, of Cincinnati, in the United States of America, and of No. 17, Cornhill, in the City of London, Copper plate printer, for an invention for—"Improvements in copper and other plate printing." *Letters Patent sealed.*
KIDDER. 14th March 1855.	**569.** JOHN KIDDER, of Plaistow, in the County of Essex, Gentleman, for an invention for—"Improvements in the construction of castors."—*Letters Patent sealed.*
GALLOWAY. GALLOWAY. 14th March 1855.	**570.** WILLIAM GALLOWAY, and JOHN GALLOWAY, of Manchester, in the County of Lancaster, Engineers, for an invention for—"Certain improvements in balancing or regulating the pressure on the slide valves of steam-engines."—*Letters Patent sealed.*
MARLAND. 14th March 1855.	**571.** JONAS MARLAND, of Sun Vale Iron works, Walsden, in the County of Lancaster, for an invention for—"An improvement or improvements in the manufacture of rollers for drawing, spinning, doubling, and preparing cotton-wool, flax, and other fibrous materials, a part or the whole of which improvement or improvements are applicable to shaping metals for other purposes." *Letters Patent sealed.*
GARDNER. 14th March 1855.	**572.** EDWARD VINCENT GARDNER, of 24, Norfolk Street, Middlesex Hospital, in the County of Middlesex, Professor of Chemistry, for an invention for—"Improvements in furnaces, ash pits, flues, and fire places, whereby smoke is prevented, fuel more perfectly consumed, and its heating value greatly economized." *Letters Patent sealed.*
SOELMAN. 14th March 1855.	**573.** WILLIAM SOELMAN, of 3, Bennett Street, Fitzroy Square, Gentleman, for an invention for—"Improvements in propellers." *Provisional protection only.*
MITCHELL. 14th March 1855.	**574.** EDMUND JOHNSON MITCHELL, of Bradford, in the County of York, Stuff merchant, for an invention for—"An improvement in rollers employed in the washing of wool and linen, in the squeezing of sized cotton warps, and other like purposes." *Letters Patent sealed.*

TURNER. 14th March 1855.

575. JOSEPH TURNER, of Farringdon Street, in the City of London, Undertaker, for an invention for—"An improvement in coffin furniture." *Letters Patent sealed.*

BERNARD. 14th March 1855.

576. JULIAN BERNARD, of Club Chambers, Regent Street, in the County of Middlesex, Gentleman, for an invention for—"Improvements in the manufacture of boots and shoes, or other coverings for the feet, and in the machinery connected therewith." *Letters Patent sealed; no specification filed.*

GOODYEAR. 14th March 1855.

577. CHARLES GOODYEAR, Junior, of No. 2, Avenue Gabriel, Champs Elysées, in the City of Paris, for an invention for—"Improvements in the plates of artificial teeth." *Letters Patent sealed.*

WRIGHT. 14th March 1855.

578. RICHARD WRIGHT, of Richmond, in the County of York, Bootmaker, for an invention for—"An improvement in the construction of swords." *Provisional protection only.*

DAVIS. 14th March 1855.

579. ABRAHAM DAVIS, of Tottenham Court Road, in the County of Middlesex, for an invention for—"An improved polishing powder." *Letters Patent sealed.*

HETHERINGTON. VICKERS. 14th March 1855.

580. JOHN HETHERINGTON, of Manchester, in the County of Lancaster, Machine maker, and ARCHIBALD VICKERS, of Bristol, in the County of Gloucester, Cotton spinner, for an invention for—"Improvements in machinery for preparing, spinning, and doubling cotton and other fibrous materials." *Letters Patent sealed.*

LISTER. 14th March 1855.

581. WILLIAM LISTER, of Dunsa Bank, near Richmond, in the County of York, Farmer, for an invention for—"An improved implement for raising or loosening turnips and other roots in the ground and cutting off the tails thereof." *Letters Patent sealed.*

BACH. 15th March 1855.

582. HENRY BACH, of Sheffield, in the County of York, Hosier, for an invention for—"Improvements in sash-frames." *Letters Patent sealed.*

ROBINSON. LISTER. STEVENSON. 15th March 1855.

583. NATHAN ROBINSON, Overlooker, JOHN LISTER, Mechanic, and HENRY STEVENSON, Patten maker, all of Bradford, in the West Riding of the County of York, for an invention for—"Improvements in looms for weaving cocoa nut matting and similar fabrics." *Letters Patent sealed.*

BUTT. 15th March 1855.

584. ROBERT MORE BUTT, of Fairfield Works, Bow, in the County of Middlesex, for an invention for—"Improvements in the manufacture of night-lights." *Letters Patent sealed.*

HUMPHRYS. 15th March 1855.

585. EDWARD HUMPHRYS, of Deptford, in the County of Kent, Engineer, for an invention for—"Improvements in applying heat to steam-boilers." *Provisional protection only.*

LORET-VERMEERSCH. 15th March 1855.

586. FRANÇOIS LORET-VERMEERSCH, of Malines, in the Kingdom of Belgium, Civil Engineer, for—"An invention for stopping trains on railroads." *Provisional protection only.*

MONDAY. 15th March 1855.

587. WILLIAM MONDAY, the younger, partner in the firm of Sollitt, Monday & Co., of Kingston-upon-Hull, in the County of York, for an invention for—"Improvements in preparing, mixing, and grinding the various kinds of plumbago, graphite, or blacklead, either together or separate, and with or without other materials, for polishing, lubricating, and for other purposes, and in otherwise preparing the same for sale." *Letters Patent sealed; no specification filed.*

GRIGNON. 15th March 1855.

588. GEORGE GRIGNON, of No. 13, Sutherland Square, Walworth, in the parish of Saint Mary Newington, in the County of Surrey, Gentleman, for an invention for—"Certain improvements in the means of launching or detaching boats from ships' sides or davits, and in the apparatus and tackle to be used for that purpose, that the operation may be speedy, spontaneous, and safe." *Letters Patent sealed.*

WICKENS. 15th March 1855.

589. HENRY WICKENS, of No. 4, Tokenhouse Yard, Bank, in the City of London, Gentleman, for an invention for—"Improvements in the means of communicating signals in railway trains." *Provisional protection only.*

MITCHELL. 16th March 1855.

590. JOSEPH MITCHELL, Engineer, of Lansdown Road, Sheffield, in the County of York, for—"An invention for supplying grease, tallow, or oil either with or without the addition of black lead, to locomotive engines, horizontal and beam engines, marine engines, and Nasmyth's patent steam-hammer." *Letters Patent sealed.*

HILL. 16th March 1855.

591. WILLIAM HILL, of Birmingham, in the County of Warwick, Tool maker, for an invention for—"Improvements in metallic pens and penholders, and in ornamenting metallic pens and penholders." *Letters Patent sealed.*

SMITH. 16th March 1855.

592. MARK SMITH, of the firm of William Smith and Brothers, of Heywood, in the County of Lancaster, Power-loom makers, for an invention for—"Improvements in looms for weaving." *Letters Patent sealed.*

WREN. 16th March 1855.

593. JOHN WALTER CAWLEY WREN, of Tottenham Court Road, in the County of Middlesex, Iron bedstead manufacturer, for an invention for—"An improved construction of invalid bed." *Provisional protection only.*

PICTON. 16th March 1855.

594. THOMAS PICTON, of Liverpool, in the County of Lancaster, Wheelwright, for an invention for—"Improved apparatus for erecting and supporting scaffoldings or stages, and which is also applicable as a fire-escape." *Provisional protection only.*

WINSTANLEY. KELLY. 16th March 1855.

595. WILLIAM WINSTANLEY, and JOSEPH KELLY, of Liverpool, in the County of Lancaster, Engineers, for an invention for—"Improvements in the construction of force pumps and their appurtenance." *Provisional protection only.*

MAUDUIT. OUIN. 16th March 1855.

596. ARMAND MAUDUIT, and FREDERIC HIPPOLYTE OUIN, of Paris, for an invention for—"An hydraulic machine." *Provisional protection only.*

BURNETT. BROWN. 16th March 1855.

597. SIR WILLIAM BURNETT, Knight, of Somerset House, and JOHN WEIR DRAPER BROWN, R.N., of Haslar Hospital, Gosport, for an invention for—"Improvements in constructing signal lanterns." *Provisional protection only.*

PETITJEAN. PÈTRE. 17th March 1855.

598. TONY PETITJEAN, and LOUIS PÈTRE, both of 45, Upper John Street, Tottenham Court Road, London, Civil Engineers, for an invention for—"Certain improvements in the manufacture of daguerreotype plates and of electro-plated sheets of metal;—part of which improvements may be applied to the production of polished surfaces on metallic articles."—*A communication.* *Provisional protection only.*

BREITTMAYER. 17th March 1855.

599. EUGÈNE BREITTMAYER, of Paris, in the Empire of France, and of 32, Essex Street, Strand, London, for an invention for—"A new or improved mortising machine." *Provisional protection only.*

JOHNSON. 17th March 1855.

600. JOHN HENRY JOHNSON, of 17, Lincoln's Inn Fields, in the County of Middlesex, and of Glasgow, North Britain, Gentleman, for an invention for—"Improvements in the application of carbonic acid gas as a motive-power."—*A communication from Joseph Ghillieno, of Marseilles, in the Empire of France, Chemist, and Henri Cristin, of the same place, Gentleman.* *Letters Patent sealed.*

JOHNSON. 17th March 1855.

601. JOHN HENRY JOHNSON, of 47, Lincoln's Inn Fields, in the County of Middlesex, and of Glasgow, North Britain, Gentleman, for an invention for—"Improvements in steam-engines."—*A communication from Narcisse Durvir, of Liancourt, in the Empire of France, Mechanical Engineer.* *Letters Patent sealed.*

JOHNSON. 17th March 1855.

602. JOHN HENRY JOHNSON, of 47, Lincoln's Inn Fields, in the County of Middlesex, and of Glasgow, North Britain, Gentleman, for an invention for—"Improvements in steam pressure and other indicators."—*A communication from Louis François Clement Breguet, of Paris, in the Empire of France.* *Provisional protection only.*

SHAW. 17th March 1855.

603. THOMAS GEORGE SHAW, of Old Broad Street, in the City of London, Merchant, for an invention for—"Improvements in apparatus to facilitate the tilting of casks, barrels, or other similar vessels of capacity." *Letters Patent sealed; no specification filed.*

BRITTEN. 17th March 1855.

604. BASHLEY BRITTEN, of Anerley, in the County of Surrey, Gentleman, for an invention for—"Improvements in projectiles." *Provisional protection only.*

COOK. 19th March 1855.

605. BENJAMIN COOK, of Chester Street, Kennington, in the County of Surrey, Furnace builder, for an invention for—"Improvements in machinery or apparatus for consuming smoke." *Provisional protection only.*

LOWRY. 19th March 1855.

606. GEORGE LOWRY, of the City of Manchester, Machinist, for an invention for—"Improvements in lubricators." *Letters Patent sealed.*

RIMELL. 19th March 1855.

607. JOHN RIMELL, of Covent Garden, in the County of Middlesex, Esquire, for an invention for—"A substitute for the turpentine ordinarily employed in mixing paints and colours."—*A communication.* *Provisional protection only.*

FAYERMAN. 19th March 1855.

608. EDMUND REYNOLDS FAYERMAN, of 79, Pall Mall, in the County of Middlesex, Gentleman, for an invention for—"Improvements in portfolios for holding papers." *Letters Patent sealed.*

HOWSON. 19th March 1855.

609. RICHARD HOWSON, of Lancaster, Engineer, for an invention for—"Improved means of increasing the motive effect of screw propellers, and of diminishing resistance to motion in vessels propelled." *Provisional protection only.*

SCULLY. HEYWOOD. 19th March 1855.

610. VINCENT SCULLY, of the City of Dublin, Esquire, and BENNETT JOHNS HEYWOOD, of the same place, Gentleman, for an invention for—"An improved mode of regulating the supply of gas to gas-burners." *Letters Patent sealed.*

TAYLOR. 19th March 1855.

611. JAMES TAYLOR, of Southwark, in the County of Surrey, Doctor of Philosophy, for an invention for—"An improved means of consuming smoke in furnaces and fire-places." *Provisional protection only.*

CHARTRAIRE. 19th March 1855.

612. FELIX ALEXIS CHARTRAIRE, Glove manufacturer, of Paris, in the Empire of France, and of 4, South Street, Finsbury, London, for an invention for—"A new apparatus for fastening gloves, collars, shirts, and other similar articles." *Stopped at fiat.*

ROEHRIG. 19th March 1855.

613. PHILIPPE ROEHRIG, of Paris, Empire of France, and of 32, Essex Street, Strand, Middlesex, for an invention for—"A new or improved alimentary substance." *Letters Patent sealed.*

CRUDNER. KOEBRIG. 19th March 1855.

614. LOUIS HENRY CRUDNER, and FREDERIC LOUIS KOEBRIG, of Tottenham Court Road, in the County of Middlesex, for an invention for—"An improved apparatus for purposes of ventilation." *Letters Patent sealed.*

SMALLEY. 19th March 1855.

615. JOHN SMALLEY, of Bishopgate, Wigan, in the County of Lancaster, Accountant, for an invention for—"Improvements in railway carriage axles." *Letters Patent sealed.*

HODGES. MURRAY. 19th March 1855.

616. RICHARD EDWARD HODGES, of Southampton Row, in the County of Middlesex, and CHARLES MURRAY, of Manor Place, Walworth, in the County of Surrey, for an invention for—"Improvements in door springs." *Letters Patent sealed.*

TERRY. 19th March 1855.

617. ALEXANDER ROBERT TERRY, of 1, Adelphi Terrace, Adelphi, in the County of Middlesex, for an invention for—"Improvements in apparatus for copying letters and other documents." *Letters Patent sealed.*

SMITH. 19th March 1855.

618. WILLIAM SMITH, of Little Woolstone, Fenny Stratford, in the County of Bucks, for an invention for—"Improvements in ploughing or trenching and subsoiling land." *Letters Patent sealed.*

WHITE. 20th March 1855.

619. ARCHIBALD WHITE, of Great Missenden, in the County of Buckingham, Conveyancer and land agent, for an invention for—"Swinging beds which will enable soldiers and others to sleep dry in tents or huts, and occasionally in the open air." *Stopped at fiat.*

MUSGRAVE. 20th March 1855.

620. JONATHAN MUSGRAVE, of Bolton-le-Moors, in the County of Lancaster, Engineer, for an invention for—"Improvements in steam-engines." *Letters Patent sealed.*

TAYLOR. 20th March 1855.

621. WILLIAM TAYLOR, of Poolstock, Wigan, in the County of Lancaster, Picker manufacturer, for an invention for—"Improvements in the construction of pickers for power looms." *Letters Patent sealed.*

FELL. SQUIRE. 20th March 1855.

622. THOMAS MARA FELL, of 74, King William Street, in the City of London, and FRANCIS SQUIRE, of the same place, Civil Engineers, for an invention for—"Improvements in balance levers and apparatus for weighing, and modifications thereof for the purpose of detecting base coin." *Letters Patent sealed.*

STEVENSON. 20th March 1855.

623. THOMAS STEVENSON, of Little Bolton, in the County of Lancaster, Mechanic, for an invention for—"Improvements in machinery or apparatus for gassing yarns." *Provisional protection only.*

MARSDEN. 20th March 1855.

624. CHARLES MARSDEN, of Kingsland Road, in the County of Middlesex, Ventilation Engineer, for an invention for – "An improvement in tent poles." *Letters Patent sealed.*

EARL OF ALDBOROUGH (*Benjamin O'Neale Stratford*). 20th March 1855.

625. BENJAMIN O'NEALE STRATFORD, EARL OF ALDBOROUGH, of Stratford Lodge, in the County of Wicklow, in Ireland, for an invention for—"Improvements in aërial navigation, and in the application of the same to warlike purposes." *Letters Patent sealed.*

BELLHOUSE. LONGSDON. 20th March 1855.

626. EDWARD TAYLOR BELLHOUSE, of the Eagle Foundry, Manchester, in the County of Lancaster, Engineer, and DAVID LONGSDON, of Grafton Street, Fitzroy Square, in the County of Middlesex, Civil Engineer, for an invention for—"Improvements in the preparation or manufacture of materials for coverings for buildings and other purposes, such coverings being specially applicable to barracks and military storehouses." *Provisional protection only.*

WILLIAMS. 20th March 1855.

627. HENRY THOMAS WILLIAMS, Archway, Guildford Street, and Keppel Mews North, Russell Square, London, for an invention for—"An improved method of making an easel." *Provisional protection only.*

BELLFORD. 20th March 1855.

628. AUGUSTE EDOUARD LORADOUX BELLFORD, of 32, Essex Street, Strand, London, Patent agent, for an invention for—"A new and improved governor for engines and machinery."—*A communication.* *Letters Patent sealed.*

ROGERS. 20th March 1855.

629. ISAAC ROGERS, of North Haverstraw, in the County of Rockland, and State of New York, in the United States of America, for an invention for—"Improvements in the mode of treating iron ores." *Letters Patent sealed.*

NEWTON. 20th March 1855.

630. ALFRED VINCENT NEWTON, of the Office for Patents, 66, Chancery Lane, in the County of Middlesex, Mechanical draughtsman, for an invention for—"Improved machinery for forming moulds for casting."– *A communication.* *Letters Patent sealed.*

MILLER. 22nd March 1855.

631. WILLIAM MILLER, of North Leith, in the County of Midlothian, Scotland, Gentleman, for an invention for– "An improved apparatus for the prevention of smoke and promoting ventilation." *Letters Patent sealed.*

MORRISON. 22nd March 1855.

632. JOHN MORRISON, of Birmingham, in the County of Warwick, Machinist, for an invention for—"An improvement or improvements in the manufacture of metallic pens." *Letters Patent sealed.*

LECOUR. 22nd March 1855.

633. TELL CLAUDE FRANÇOIS LECOUR, of Paris, in the Empire of France, and of 4, South Street, Finsbury, London, Mechanical Engineer, for an invention for—"Improvements in locomotion on canals and rivers." *Provisional protection only.*

BIDEN. 22nd March 1855.

634. JAMES BIDEN, of Gosport, in the County of Hants, Gentleman, for an invention for—"Improvements in marine steam-engines." *Letters Patent sealed.*

SNOWDEN. 22nd March 1855.

635. JAMES SNOWDEN, of Dartford, in the County of Kent, Engineer, for an invention for—"An improvement in furnaces and other fire-places." *Stopped at fiat.*

SEMPLE. 22nd March 1855.

636. MATTHEW SEMPLE, of Plymouth, in the County of Devon, Gentleman, for an invention for—"Improvements in railway breaks." *Letters Patent sealed.*

MAC NAUGHT. 22nd March 1855.

637. WILLIAM MAC NAUGHT, of Rochdale, in the County of Lancaster, Engineer, for an invention for—"Certain improvements in machinery or apparatus for spinning cotton and other fibrous substances." *Letters Patent sealed.*

CARNELL. 22nd March 1855.

638. CHARLES CARNELL, of the City of Philadelphia, and State of Pennsylvania, for an invention for—"Certain improvements in the manufacture of bricks." *Letters Patent sealed; no specification filed.*

RUSSELL. 22nd March 1855.

639. JOHN SCOTT RUSSELL, of Millwall, for an invention for—"Improvements in ship building." *Letters Patent sealed; no specification filed.*

WHYATT. 23rd March 1855.

640. GEORGE WHYATT, of Openshaw, in the County of Lancaster, Dyer, for an invention for—"Certain improvements in machinery or apparatus for cutting piled goods or fabrics." *Letters Patent sealed.*

JOHNSON. 23rd March 1855.

641. JOHN HENRY JOHNSON, of 47, Lincoln's Inn Fields, in the County of Middlesex, and of Glasgow, North Britain, Gentleman, for an invention for—"Improvements in machinery for combing wool and other fibrous materials."—*A communication from Francis Joseph Boussus, of Fournes, in the Empire of France.*
Provisional protection only.

JOHNSON. 23rd March 1855.

642. JOHN HENRY JOHNSON, of 47, Lincoln's Inn Fields, in the County of Middlesex, and of Glasgow, North Britain, Gentleman, for an invention for—"Improvements in hydraulic motive-power engines."—*A communication from Narcisse Duvoir, of Liancourt, in the Empire of France, Mechanical Engineer.* *Letters Patent sealed.*

MORTON. 23rd March 1855.

643. HENRY JOSEPH MORTON, of Leeds, in the County of York, Galvanized iron merchant and contractor, for an invention for—"Improvements in the construction of gas holders or gasometers." *Provisional protection only.*

BEHN. 23rd March 1855.

644. CHARLES FREDERICK BEHN, of the Commercial sale rooms, in the City of London, for an invention for—"Improvements in machinery for making moulds for casting metal."—*A communication from David Brown, of the City of Baltimore, United States of America.* *Letters Patent sealed.*

RANSOME. 23rd March 1855.

645. FREDERICK RANSOME, of Ipswich, for an invention for—"An improvement in the manufacture of artificial stone." *Letters Patent sealed.*

YOUNG. 23rd March 1855.

646. WILLIAM YOUNG, of Queen Street, Cheapside, in the City of London, for an invention for—"Improvements in stoves or fire-places." *Letters Patent sealed.*

WILLIS. 24th March 1855.

647. JAMES WILLIS, of No. 75, Cheapside, in the City of London, for an invention for—"Improvements in certain parts of the frames and furniture of umbrellas and parasols." *Letters Patent sealed.*

BACHELARD. HARVEY. 24th March 1855.

648. JOHN LOUIS BACHELARD, of No. 3, Charles Terrace, Asylum Road, Old Kent Road, in the County of Surrey, Gentleman, and HENRY HARVEY, of No. 73, Denbigh Street, Pimlico, in the County of Middlesex, Gentleman, for an invention for—"Making an animal manure for all agricultural, horticultural, and floricultural purposes, by reducing the flesh and bones of all or any of the animals of the earth and fishes of the sea, to a pulp, powder, or jelly, with or without the aid of alkali."
Provisional protection only.

SCOTT. 24th March 1855.

649. URIAH SCOTT, of Duke Street, Adelphi, in the County of Middlesex, Engineer, for an invention for—"Certain improvements in the construction of carriages and of the various parts of the same." *Provisional protection only.*

JESTY. 24th March 1855.

650. ROBERT JOSEPH JESTY, of the Great Northern Railway, King's Cross, in the County of Middlesex, Station master, for an invention for—"Improvements in apparatus for indicating between parts of a train of carriages on a railway."—*Letters Patent sealed.*

ELDER. 24th March 1855.

651. DAVID ELDER, Junior, of Glasgow, in the County of Lanark, North Britain, Engineer, for an invention for—"Improvements in moulding or shaping metals."
Letters Patent sealed.

NIVEN. 24th March 1855.

652. JAMES NIVEN, of Keir, in the County of Perth, North Britain, Gentleman, for an invention for—"Improvements in the manufacture of paper and in the production of textile materials." *Stopped at fiat.*

CLEWE. 24th March 1855.

653. T. F. E. CLEWE, of Paris, in the Empire of France, for an invention for—"A new construction of locomotive engines, tenders, and railway carriages."
Letters Patent sealed.

LEWIS. GURNEY. 24th March 1855.

654. GRIFFITH GEORGE LEWIS, C.B., Major General, Royal Engineers, of Woolwich, in the County of Kent, and JOSEPH GURNEY, of St. James' Street, in the County of Middlesex, Military Tailor, for an invention for—"An improved construction of knapsack convertible when required into a bed, a litter, or a tent."
Letters Patent sealed.

BROWN. 24th March 1855.

655. WILLIAM BROWN, of Gresham Street, in the City of London, Warehouseman, for an invention for—"An improved mode of preparing sewing silk for the market."
Letters Patent sealed.

EDWARDS. 24th March 1855. **656.** LEWIS FREDERICK EDWARDS, of New Bridge Street, in the City of London, Gentleman, for an invention for—"An improvement in furnaces."—*A communication.* *Provisional protection only.*

DECHANET. SISCO. 26th March 1855. **657.** JEAN BAPTISTE DECHANET, Iron manufacturer, and ANTOINE DOMINIQUE SISCO, Practical Engineer, both of Paris, in the Empire of France, for an invention for—"Improvements in the process of manufacturing metallic tubes and pipes, and in the machines or apparatus used for that purpose." *Stopped at fiat.*

NORTH. 26th March 1855. **658.** ROBERT SAM NORTH, of Gorton, near Manchester, in the County of Lancaster, Engineer, for an invention for—"Improvements in the permanent way and sidings of railways." *Provisional protection only.*

GEDGE. 26th March 1855. **659.** JOHN GEDGE, of No. 4, Wellington Street South, Strand, in the County of Middlesex, Patent agent, for an invention for—"Improvements in the manufacture of gloves."—*A communication from Felix J. P. Bouvier, of Grenoble, in the Empire of France.* *Provisional protection only.*

GEDGE. 26th March 1855. **660.** JOHN GEDGE, of No. 4, Wellington Street South, Strand, in the County of Middlesex, Patent agent, for an invention for—"Improvements in machinery or apparatus for forming corners or curves."—*A communication from Charles Sester, of Beaume les Dames, in the Empire of France.* *Provisional protection only.*

BRITTEN. 26th March 1855. **661.** JOHN BRITTEN, of Birmingham, in the County of Warwick, Engineer, for an invention for—"A new or improved machine for sweeping or cleaning chimneys." *Letters Patent sealed.*

BARRETT. EXALL. ANDREWES. 26th March 1855. **662.** GEORGE ALLAM BARRETT, WILLIAM EXALL, and CHARLES JAMES ANDREWES, all of Reading, in the County of Berks, for an invention for—"Certain improvements in portable and fixed combined thrashing machines." *Letters Patent sealed.*

M'KINNELL. 26th March 1855. **663.** JOHN M'KINNELL, of Glasgow, in the County of Lanark, North Britain, Gentleman, for an invention for—"Improvements in ventilation." *Letters Patent sealed.*

JOHNSON. 26th March 1855. **664.** JOHN HENRY JOHNSON, of 47, Lincoln's Inn Fields, in the County of Middlesex, and of Glasgow, North Britain, Gentleman, for an invention for—"Improvements in machinery or apparatus for dressing flax, hemp, and other fibrous materials."—*A communication from Jean Jacques Alexandre Lallier, of Evreux, and François Jules Vignaud, of Paris, both in the Empire of France.* *Letters Patent sealed.*

BARTLETT. 26th March 1855. **665.** WILLIAM BARTLETT, of Bradford Street, Birmingham, in the County of Warwick, Manufacturer, for an invention for—"Certain improvements in ventilators." *Provisional protection only.*

BUSSON. 26th March 1855. **666.** CLAUDE ANTOINE BUSSON, Engineer, of Paris, in the Empire of France, for an invention for—"Improvements in feeding apparatuses applicable to machines for treating textile materials." *Stopped at fiat.*

HILL. 26th March 1855. **667.** HENRY CHARLES HILL, of Parker Street, Kingsland, Middlesex, for an invention for—"Improvements in the manufacture of waterproof flocked cloth and other fabrics." *Letters Patent sealed.*

CROSSLEY. 26th March 1855. **668.** FRANCIS CROSSLEY, M.P., of Halifax, for an invention for—"Improvements in the manufacture of mosaic rugs." *Letters Patent sealed.*

BURNHAM. 26th March 1855. **669.** OLIVER R. BURNHAM, of New York, in the United States of America, for an invention for—"Improvements in the construction of projectiles." *Stopped at fiat.*

WILLIAMSON. 26th March 1855. **670.** ALEXANDER WILLIAM WILLIAMSON, of University College, Gower Street, in the County of Middlesex, for an invention for—"Improvements in stoves or fireplaces." *Letters Patent sealed.*

MARLAND. 26th March 1855. **671.** JOHN MARLAND, of Leeds, for an invention for—"Improvements in preparing for and in sizing and warping woollen and worsted yarn." *Letters Patent sealed.*

ARMBRUSTER. LAIST. 26th March 1855. **672.** CARL ARMBRUSTER, of Andermach, in Rhenish Prussia, Proprietor of Mines, and OTTO LAIST, of Pfeddersheim, in the Grand Duchy of Hesse, Chemist, for an invention for—"Improvements in the manufacture of sulphate of soda." *Provisional protection only.*

SHAW. HARROP. FIELDING. 26th March 1855.	**673.** JOHN SHAW, of Lees, Manager, LEWIS HARROP, of Oldham, Cotton Spinner, and JAMES FIELDING, of Lees, Cotton Spinner, all in the County of Lancaster, for an invention for—"Improvements in machinery for spinning and doubling cotton and other fibrous materials." *Letters Patent sealed.*
BOURNE. 27th March 1855.	**674.** JOHN COOKE BOURNE, of Holmes Terrace, Kentish Town, in the County of Middlesex, Artist, for an invention for—"Improvements in photographic apparatus." *Letters Patent sealed.*
GEDGE. 27th March 1855.	**675.** JOHN GEDGE, of No. 4, Wellington Street South, Strand, in the County of Middlesex, Patent agent, for an invention for—"Improvements in the mode or modes of transferring designs on to woven, textile, or other fabrics, or on paper, and in the machinery used for such purposes."—*A communication.* *Letters Patent sealed.*
YATES. 27th March 1855.	**676.** WILLIAM YATES, the younger, of Woburn Place, Russell Square, in the County of Middlesex, Gentleman, for an invention for—"Improvements in the treatment of grain from which beer or spirit has been made."—*Provisional protection only.*
GOODYEAR. 27th March 1855.	**677.** CHARLES GOODYEAR, of No. 42, Avenue Gabriel, Champs Elysées, Paris, for an invention for—"A new method of moulding india-rubber and gutta-percha."—*A communication.* *Letters Patent sealed.*
GETTY. 27th March 1855.	**678.** JOHN GETTY, of Liverpool, in the County of Lancaster, Ship builder, for an invention for—"An improvement in the construction of steam and other vessels." *Letters Patent sealed; no specification filed.*
TURNER. 27th March 1855.	**679.** ARCHIBALD TURNER, of Leicester, India-Rubber manufacturer, for an invention for—"Improvements in the manufacture of elastic fabrics." *Letters Patent sealed; no specification filed.*
TURNEY. 28th March 1855.	**680.** GEORGE LEONARD TURNEY, of Wood Street, Cheapside, in the City of London, Needle and pin manufacturer, for an invention for—"An improved mode of arranging or packing pins and needles for sale." *Letters Patent sealed.*
MULHOLLAND. 28th March 1855.	**681.** FRANCIS GEORGE MULHOLLAND, of No. 44, Vincent Square, Westminster, in the County of Middlesex, Civil Engineer, for an invention for—"An improved mode of constructing fire-proof and waterproof roofing, flooring, and covering for general purposes." *Provisional protection only.*
PERRING. 28th March 1855.	**682.** JOHN SHAE PERRING, of Radcliffe, in the County of Lancaster, Civil Engineer, for an invention for—"Improvements in the permanent way of railways." *Letters Patent sealed.*
HIGGIN. 28th March 1855.	**683.** JAMES HIGGIN, of the City of Manchester, in the County of Lancaster, Manufacturing Chemist, for an invention for—"The use of a thickener for mordants and colours for printing woven fabrics, which thickener has not been hitherto used for such purposes." *Provisional protection only.*
HUDDE. FOQUET. 28th March 1855.	**684.** FRANÇOIS ETIENNE HUDDE, Mechanical Engineer, and JEAN BAPTISTE EMMANUEL FOQUET, Gentleman, of 39, Rue de l'Echiquier, Paris, and 4, South Street, Finsbury, London, for an invention for—"Certain improvements in the construction of pyrometers." *Letters Patent sealed.*
HUTCHISON. 28th March 1855.	**685.** WILLIAM HUTCHISON, of Tonbridge Wells, in the County of Kent, Stone merchant and indurator, for an invention for—"Improvements in manufacturing artificial stone and in giving colour to the same." *Letters Patent sealed.*
DRAY. 28th March 1855.	**686.** WILLIAM DRAY, of Swan Lane, in the County of Middlesex, Engineer, for an invention for—"An improved gear for communicating power from horses or cattle, for the purpose of driving machinery."—*A communication.* *Letters Patent sealed.*
REVELL. 28th March 1855.	**687.** JOSEPH REVELL, of Duckenfield, in the County of Chester, Plasterer, for an invention for—"Certain improvements in machinery or apparatus for propelling vessels." *Provisional protection only.*
BECKER. 28th March 1855.	**688.** ERNEST HANNIBAL BECKER, of Altham, in the County of Lancaster, Manufacturer, for an invention for—"A new or improved projectile." *Provisional protection only.*

NICOLL. 28th March 1855.

689. GEORGE HALL NICOLL, of Dundee, in the County of Forfar, North Britain, Ironmonger, for an invention for—"Improvements in laundry stoves." *Letters Patent sealed.*

M'LOW. 28th March 1855.

690. THOMAS M'LOW, of Middle Row, Holborn, in the County of Middlesex, Gentleman, for an invention for—"Improvements in screw propellers." *Letters Patent sealed.*

GAUNTLETT. 28th March 1855.

691. WILLIAM HENRY GAUNTLETT, Engineer, of Banbury, Oxfordshire, for an invention for—"Improvements in apparatus for cutting or pulping turnips and other roots." *Letters Patent sealed.*

PEABODY. 28th March 1855.

692. JOSEPH PEABODY, of Old Broad Street, in the City of London, Gentleman, for an invention for—"Improved machinery for obtaining motive-power by the action of the wind."—*A communication.* *Letters Patent sealed.*

MOWBRAY. 29th March 1855.

693. FREDERICK WILLIAM MOWBRAY, of Shipley, near Leeds, in the County of York, Engineer, for an invention for—"Improvements in bearings for the axles of railway wheels, and of other axles or shafts, which improvements are also applicable to axles or shafts and other like rubbing surfaces." *Letters Patent sealed.*

GEDGE. 29th March 1855.

694. JOHN GEDGE, of 4, Wellington Street South, Strand, in the County of Middlesex, Patent agent, for an invention for—"Improvements in the means of stopping or retarding railway trains."—*A communication from Franz Steigerwald, Heinrich Schirges, and Carl Fuchs, of Munich, in the Kingdom of Bavaria.* *Letters Patent sealed.*

ANGER. 29th March 1855.

695. FRANÇOIS JOSEPH ANGER, of No. 16, Stamford Street, Blackfriars Road, in the County of Surrey, Merchant, for an invention for—"Improvements in the preservation of vegetable substances." *Letters Patent sealed.*

GILLOT. BEAUVAIS. 29th March 1855.

696. MARIE JEANNE THÉRÈSE GILLOT, Widow, and CÉCILE CELESTINE BEAUVAIS, of No. 30, Upper Charlotte Street, Fitzroy Square, London, for an invention for—"Improvements in purifying grain, vegetable or botanical matter, and cochineal." *Letters Patent sealed.*

BROWN. 29th March 1855.

697. WALTER BROWN, of 5, Catherine Street, Cornwall Road, Lambeth, for an invention for—"Improvements in the manufacture of sheet metal casks and kegs." *Provisional protection only.*

PORRITT. 29th March 1855.

698. JAMES PORRITT, of Stubbins Vale Mills, near Ramsbottom, in the County of Lancaster, Manufacturer, for an invention for—"Certain improvements in steam-engines." *Letters Patent sealed.*

M'DOUGALL. 29th March 1855.

699. ALEXANDER M'DOUGALL, of Manchester, in the County of Lancaster, Manufacturing Chemist, for an invention for—"An improved method of consuming smoke in steam-engine or other furnaces or fire-places." *Letters Patent sealed.*

BLAIR. 29th March 1855.

700. JOHN BLAIR, of Glasgow, in the County of Lanark, North Britain, Hat Manufacturer, for an invention for—"Improvements in hats and other coverings for the head." *Letters Patent sealed.*

DALGETY. 29th March 1855.

701. ALEXANDER DALGETY, of the firm of Dalgety and Ledger, of Deptford, in the County of Kent, Engineers, for an invention for—"Improvements in steam-engines." *Letters Patent sealed; no specification filed.*

JOHNSON. 29th March 1855.

702. JOHN HENRY JOHNSON, of 47, Lincoln's Inn Fields, in the County of Middlesex, and of Glasgow, North Britain, Gentleman, for an invention for—"Improvements in anchors."—*A communication from Louis Frederic François David, of Havre, in the Empire of France, Chain manufacturer.* *Letters Patent sealed.*

JOHNSON. JOHNSON. JOHNSON. 29th March 1855.

703. ROBERT JOHNSON, WILLIAM WHITTLE JOHNSON, and ROBERT JOHNSON, the younger, trading under the title or firm of W. W. and R. Johnson and Sons, of No. 4, Waterloo Place, Commercial Road, Limehouse, in the County of Middlesex, for an invention for—"A new and improved covering for surfaces, linings, roofs, and spaces." *Stopped at fiat.*

JAMES. 29th March 1855.

704. WILLIAM JAMES, of Crosby Hall Chambers, in the City of London, Iron merchant, for an invention for—"Improvements in the manufacture of screw bolts." *Letters Patent sealed; no specification filed.*

BÈRE. 30th March 1855.

705. ANATOLE BÈRE, Government Mining Engineer, of Lille, in the Empire of France, and of 4, South Street, Finsbury, London, for an invention for—"Improvements in steam-boilers." *Letters Patent sealed.*

PARNELL. 30th March 1855.

706. HENRY WILLIAM PARNELL, of 13, Bryanston Square, London, for an invention for—"Improvement in the construction of ships and boats so as to increase their buoyancy and diminish their rolling motion." *Provisional protection only.*

CROZIER. 30th March 1855.

707. WILLIAM CROZIER, of the Borough of Sunderland, in the County of Durham, Civil Engineer, for—"An invention for the better extinction of fire." *Letters Patent sealed; no specification filed.*

SWAIN. 30th March 1855.

708. WILLIAM SWAIN, of Birmingham, in the County of Warwick, Gentleman, for an invention for—"Certain improvements in furnaces for japanners' stoves, ovens, boilers, and kilns, and which improvements are also applicable to other fire-places, by which combustion is rendered more complete, and the fuel thereby greatly economized." *Letters Patent sealed.*

TYTHERLEIGH. 30th March 1855.

709. WILLIAM TYTHERLEIGH, of Birmingham, in the County of Warwick, Clerk of Works, for an invention for—"The application of a well known process to the covering of iron in sheets or bars with copper or copper alloys, whereby he produces a new and useful product." *Letters Patent sealed.*

BABCOCK. BABCOCK. 30th March 1855.

710. GEORGE H. BABCOCK, and ASHER M. BABCOCK, of Westerly, in the State of Rhode Island, in the United States of America, for an invention for—"Improvements in presses for printing in colours, called 'Polychromatic printing presses.'" *Letters Patent sealed.*

PRENTICE. RICHARDSON. 30th March 1855.

711. MANNING PRENTICE, of Stowmarket, and THOMAS RICHARDSON, of Newcastle-on-Tyne, for an invention for—"Improvements in the manufacture of manures." *Letters Patent sealed.*

MORGAN. 30th March 1855.

712. JOSEPH MORGAN, of Manchester, Manufacturer of Plaited Wicks, for an invention for—"An improvement in the manufacture of candles in which tallow is used." *Letters Patent sealed.*

PRENTICE. RICHARDSON. 30th March 1855.

713. MANNING PRENTICE, of Stowmarket, and THOMAS RICHARDSON, of Newcastle-upon-Tyne, for an invention for—"Improvements in the manufacture of manures." *Letters Patent sealed.*

NEALE. DAWSON. 30th March 1855.

714. EDWARD VANSITTART NEALE, of Russel Place, in the County of Middlesex, Esquire, and THOMAS DAWSON, of King's Arms Yard, in the City of London, Manufacturer, for an invention for—"Improvements in handles and parts of handles for umbrellas, walking-sticks, knives, and for other like articles, and for articles of furniture, in stoppers, finger-plates, medallions, jewellery furniture, and other decorative articles." *Letters Patent sealed.*

BUNNING. 30th March 1855.

715. THEOPHILUS WOOD BUNNING, of Newcastle-upon-Tyne, Engineer, for an invention for—"An improvement in steam-engines." *Letters Patent sealed.*

BUNNING. 30th March 1855.

716. THEOPHILUS WOOD BUNNING, of Newcastle-upon-Tyne, Engineer, for an invention for—"Improvements in steam-engines." *Letters Patent sealed.*

SHANKS. 31st March 1855.

717. ANDREW SHANKS, Engineer, of 6, Robert Street, Adelphi, Westminster, for an invention for—"Certain improvements in hand drilling machines." *Provisional protection only.*

WHITLEY. 31st March 1855.

718. CHARLES WHITLEY, of Manchester, in the County of Lancaster, self acting tool maker, for an invention for—"Improvements in machinery or apparatus for drilling." *Letters Patent sealed.*

SURGEY. 31st March 1855.

719. JOHN BAILEY SURGEY, of Lidlington Place, St. Pancras, in the County of Middlesex, for an invention for—"Improvements in instruments for threading needles." *Letters Patent sealed.*

CORBITT. 31st March 1855.	**720.** WILLIAM CORBITT, of Elm Tree Bank, Rotherham, in the County of York, Stove Grate manufacturer, for an invention for—"Improvements in warming and ventilating apartments, parts of which improvements are applicable to the prevention of smoky chimneys." *Letters Patent sealed.*
HARDMAN. 31st March 1855.	**721.** ROBERT HARDMAN, of Bolton-le-Moors, in the County of Lancaster, Mechanic, for an invention for—"Certain improvements in looms for weaving." *Letters Patent sealed.*
NEWTON. 31st March 1855.	**722.** WILLIAM EDWARD NEWTON, of the Office for Patents, 66, Chancery Lane, in the County of Middlesex, Civil Engineer, for an invention for—"An improved mode of constructing centre bits."—*A communication.* *Letters Patent sealed.*
BALMAIN. 31st March 1855.	**723.** WILLIAM HENRY BALMAIN, of St. Helen's, in the County of Lancaster, Manufacturing Chemist, for an invention for—"Improved methods of or processes for recovering oxyde of manganese after it has been used in the manufacture of chlorine." *Letters Patent sealed.*
WILSON. PAYNE. 31st March 1855.	**724.** GEORGE FERGUSSON WILSON, and GEORGE PAYNE, both of Belmont, Vauxhall, for an invention for—"An improvement in treating oils to obtain an elastic product." *Letters Patent sealed.*
CRAMPTON. 31st March 1855.	**725.** THOMAS RUSSELL CRAMPTON, of the Adelphi, in the County of Middlesex, for an invention for—"Improvements in locomotive and other steam-boiler furnaces."—*A communication.* *Letters Patent sealed.*
ABBOTT. ABBOTT. 31st March 1855.	**726.** ELIZABETH ABBOTT, and MATILDA ABBOTT, both of Horningsea, in the County of Cambridge, Gentlewomen, for an invention for—"Improvements in stays." *Letters Patent sealed.*
HEDGCOCK. 31st March 1855.	**727.** THOMAS HEDGCOCK, of 7, Cavendish Grove, Wandsworth Road, in the County of Surrey, Master, Royal Navy, for an invention for—"An improved quadrant for taking solar altitudes for latitude, without aid of marine horizon, and for ascertaining the true longitude." *Letters Patent sealed.*
TIMMERHANS. 2nd April 1855.	**728.** ADOLPHE EMILE LAMBERT CHARLES TIMMERHANS, of Leige, in the Kingdom of Belgium, for—"An invention for forcing projectiles, applicable to artillery as well as to portable fire-arms." *Provisional protection only.*
PHILLIPS. 2nd April 1855.	**729.** FREDERICK PHILLIPS, of the Hall Farm, Downham, near Brandon, in the County of Suffolk, Land agent, for an invention for—"Improvements in machinery or apparatus for distributing manure, sowing or depositing seeds, and effecting the working and cultivation of land." *Letters Patent sealed.*
SHAND. 2nd April 1855.	**730.** JAMES SHAND, of the firm of Shand and Mason, 215, Blackfriars Road, in the County of Surrey, Fire-engine manufacturers, for an invention for—"Improvements in fire-engines." *Provisional protection only.*
TAYLOR. 2nd April 1855.	**731.** JOHN TAYLOR, of Spring Grove, Hounslow, in the County of Middlesex, for an invention for—"An improvement in the manufacture of covers for books." *Letters Patent sealed.*
CREWS. GRAY. 2nd April 1855.	**732.** CHARLES CREWS, of 8, Montague Terrace, Bow Road, and HENRY GEORGE GRAY, of St. James's Street, both in the County of Middlesex, for an invention for—"Improvements in preparing and using deodorizing or disinfecting compounds." *Letters Patent sealed.*
NEWALL. 2nd April 1855.	**733.** ROBERT STIRLING NEWALL, of Gateshead-on-Tyne, Wire Rope manufacturer, for an invention for—"An improvement in the standing rigging of ships and other vessels." *Letters Patent sealed.*
PEYTON. 2nd April 1855.	**734.** RICHARD PEYTON, of the Bordesley Works, Birmingham, for an invention for—"Improvements in the manufacture of iron gates and fences."—*Letters Patent sealed.*
FRIEND. 2nd April 1855.	**735.** GEORGE WILLIAM FRIEND, of 22, High Holborn, in the County of Middlesex, Umbrella and Parasol manufacturer, for an invention for—"Improvements in umbrellas and parasols." *Letters Patent sealed.*

LUND. HIPKINS. 2nd April 1855.

736. WILLIAM LUND, of Fleet Street, in the City of London, Manufacturer, and WILLIAM EDWARD HIPKINS, Foreman to the said William Lund, for an invention for—"Improvements in the manufacture of cork-screws." *Letters Patent sealed.*

BOTTA. 3rd April 1855.

737. FRANÇOIS THEODORE BOTTA, of Paris, Brewer, for an invention for—"Improvements in the method of and apparatus for beer brewing." *Letters Patent sealed.*

WITTY. 3rd April 1855.

738. ROBERT CHRISTOPHER WITTY, of No. 9, Torriano Avenue, Camden Road Villas, in the County of Middlesex, Civil Engineer, for an invention for—"An improved method of reflecting and diffusing solar light." *Provisional protection only.*

CHAPMAN. 3rd April 1855.

739. HENRY CHAPMAN, of Kingsland, in the County of Middlesex, for an invention for—"An improved electro-mechanical apparatus for supplying and adjusting the electrodes used in the production of the electric light." *Letters Patent sealed.*

PRIDEAUX. 3rd April 1855.

740. THOMAS PRIDEAUX, of Birmingham, in the County of Warwick, Farmer and Hotel Keeper, for an invention for—"A new or improved plough for draining and other similar purposes." *Letters Patent sealed.*

JACKSON. 3rd April 1855.

741. PETER ROTHWELL JACKSON, of Salford, in the County of Lancaster, Engineer, for an invention for—"Improvements in machinery for making patterns and for moulding therefrom." *Letters Patent sealed.*

POWERS. 3rd April 1855.

742. HIRAM POWERS, of Florence, in Tuscany, Sculptor, for—"An invention for forming perforations or throats to the cutting edges of files or rasps, for allowing the particles cut away to pass through, and to prevent the instrument from clogging or choking." *Letters Patent sealed.*

TOOTH. 3rd April 1855.

743. WILLIAM HENRY TOOTH, of No. 2, Pilgrim Street, Kennington Lane, in the parish of Lambeth, in the County of Surrey, Engineer, for an invention for—"Certain improvements in the construction of floating vessels and in the machinery and steam signals connected therewith, and in the application thereof to other purposes." *Letters Patent sealed.*

GILL. SHERIDAN. 3rd April 1855.

744. WILLIAM EATHORNE GILL, of Totnes, Devonshire, Engineer, and HENRY BRINSLEY SHERIDAN, of Parson's Green, in the County of Middlesex, Gentleman, for an invention for—"Treating fish for oil and utilizing the products of such process." *Letters Patent sealed.*

CORNIDES. 3rd April 1855.

745. LOUIS CORNIDES, of No. 4, Trafalgar Square, Office for Patents, Charing Cross, for an invention for—"Certain improvements in saturating and coating or covering leather, paper, and textile fabrics, so as to render the same on the coated or covered surfaces thereof impervious to water." *Letters Patent sealed.*

MAAS. ADAMS. 3rd April 1855.

746. JACOB MAAS, and JAMES ADAMS, both of White Hart Yard, Borough of Southwark, in the County of Surrey, Millwrights and Millstone makers, for an invention for—"Improvements in mills for splitting or grinding beans, pease, corn, and all kinds of grain." *Letters Patent sealed.*

COWEN. SWEETLONG. 3rd April 1855.

747. JAMES COWEN, of Grey Coat Street, and JAMES SWEETLONG, of Earl Street, Westminster, for an invention for—"A locomotive land battery." *Provisional protection only.*

FANSHAWE. FANSHAWE. 3rd April 1855.

748. HENRY RICHARDSON FANSHAWE, and JOHN AMERICUS FANSHAWE, of North Woolwich, in the County of Essex, Manufacturing agents, for an invention for—"Certain improvements in the manufacture of waterproof fabrics of the vulcanized, sulphurized, or cured class." *Letters Patent sealed.*

JOYCE. 3rd April 1855.

749. FREDERICK JOYCE, of Upper Thames Street, in the City of London, Percussion Cap manufacturer, for an invention for—"Improvements in the manufacture of percussion caps and other primers." *Letters Patent sealed.*

EVRARD. 3rd April 1855.

750. MAXIMILIEN EVRARD, Civil Engineer, of Saint Etienne, Town in the French Empire, for an invention for—"An improved continuous drawing compresser, for moulding or bruising several substances or mixtures." *Letters Patent sealed.*

GREENWOOD. 3rd April 1855.

751. SAMUEL GREENWOOD, of Sunderland, in the County of Durham, Engineer, for an invention for—"Improvements in machinery for making rivets, bolts, nuts, and other similar articles." *Letters Patent sealed.*

NICKELS. HOBSON. 3rd April 1855.

752. CHRISTOPHER NICKELS, of the Albany Road, in the County of Surrey, and JAMES HOBSON, of Leicester, for an invention for—"Improvements in weaving pile fabrics when wires are used." *Letters Patent sealed.*

CROWLEY. 4th April 1855.

753. JOHN CROWLEY, of Sheffield, in the County of York, Iron Founder, for an invention for—"Improvements in the manufacture of malleable cast iron." *Letters Patent sealed.*

HILLS. MILES. MONUMENT. 4th April 1855.

754. ROBERT HILLS, of Caroline Place, City Road, THOMAS MILES, of Queen Street, Finsbury, and HENRY MONUMENT, of Caroline Place, City Road, for an invention for—"Improvements in bottles, jars, and other similar vessels, to facilitate the corking or stopping of them." *Provisional protection only.*

MOUCHEL. 4th April 1855.

755. LOUIS AMBROISE MICHEL MOUCHEL, of Paris, in the Empire of France, and of 166, Fleet Street, London, Merchant, for an invention for—"An improved method of joining pipes, tubes, and ducts."—*A communication.* *Letters Patent sealed.*

SQUIRE. 5th April 1855.

756. THOMAS SQUIRE, of Latchford, in the County of Chester, Tanner, for an invention for—"Improvements in removing hairs from hides and skins."—*A communication.* *Letters Patent sealed.*

GOOSTREY. HULME. HOUGH. 5th April 1855.

757. WILLIAM GOOSTREY, and GEORGE HULME, of Chedderton, in the County of Stafford, Paper manufacturers, and CHARLES HOUGH, of the same place, Manager, for an invention for—"Improvements in machinery or apparatus for manufacturing paper." *Letters Patent sealed.*

CARLHIAN. CORBIERE. 5th April 1855.

758. ISIDORE CARLHIAN, of 26, Rue du Sentier, Paris, in the Empire of France, and FRANÇOIS ISIDORE CORBIERE, of 27, Castle Street, Holborn, London, for an invention for—"Improvements in apparatus for making soda-water and other aerated liquids."—*A communication from Messrs. Guilleré and Dubois.* *Letters Patent sealed.*

CHESTERMAN. 5th April 1855.

759. JAMES CHESTERMAN, of Sheffield, in the County of York, Manufacturer, for an invention for—"Improvements in the manufacture of table and other like knives." *Letters Patent sealed.*

BRAZIER. 5th April 1855.

760. JOSEPH BRAZIER, of Wolverhampton, in the County of Stafford, Manufacturer, for an invention for—"An improvement or improvements in revolving or repeating fire-arms." *Letters Patent sealed.*

GOODYEAR. 5th April 1855.

761. CHARLES GOODYEAR, of No. 42, Avenue Gabriel, Champs Elysées, in the City of Paris, for an invention for—"Improvements in self inflating pontoons and life preservers." *Letters Patent sealed.*

LANE. 5th April 1855.

762. DENNY LANE, of Sunday's Well, in the City of Cork, Merchant, for an invention for—"Improvements in obtaining power by water."—*Letters Patent sealed.*

FROST. 5th April 1855.

763. JOSEPH EDWIN FROST, of 135, Goswell Street, in the County of Middlesex, for an invention for—"An improvement in ball or float cocks."—*Letters Patent sealed.*

LONGBOTTOM. 5th April 1855.

764. ABRAM LONGBOTTOM, of Soho Foundry, Meadow Lane, Leeds, in the County of York, Engineer, for an invention for—"Improvements in preparing sand and materials to be used when casting."—*A communication.* *Provisional protection only.*

HOLMES. 5th April 1855.

765. HERBERT MOUNTFORD HOLMES, of Derby, for an invention for—"Improvements in the manufacture of tires for wheels." *Letters Patent sealed.*

ARRIVE. 5th April 1855.

766. PETER ARRIVE, Engineer, of No. 7, Spencer Street, Darnley Road, Gravesend, in the County of Kent, for an invention for—"Improvements in safety valves of steam-boilers." *Letters Patent sealed.*

DURANT. 5th April 1855.

767. ANGUISH HONOUR AUGUSTUS DURANT, Esquire, of Tong Castle, Salop, for an invention for—"An improved axle and axle-box for carriage wheels, shafts, axles, or general bearings of machinery." *Letters Patent sealed.*

WAITHMAN. 7th April 1855.

768. ROBERT WILLIAM WAITHMAN, Esquire, of Bentham House, in the County of York, for an invention for—"Improvements in machinery or apparatus for the manufacture of lint or similar substances." *Letters Patent sealed.*

HAYS. 7th April 1855.

769. WILLIAM BENNETT HAYS, of No. 47, Cambridge Street, Pimlico, in the County of Middlesex, Civil Engineer, for an invention for—"An improved breakwater." *Letters Patent sealed.*

ROLLASON. 7th April 1855.

770. ALEXANDER ROLLASON, of Birmingham, in the County of Warwick, Photographic Artist, for an invention for—"Certain improvements in photography." *Letters Patent sealed.*

GERNER. 7th April 1855.

771. HENRY GERNER, of Moorgate Street, in the City of London, Architect, for an invention for—"Improvements in polygraphic or writing and drawing apparatus." *Letters Patent sealed; no specification filed.*

STONES. 7th April 1855.

772. RICHARD STONES, of Kingston-upon-Hull, in the County of York, Brass Founder, for an invention for—"Improvements in taps or cocks for drawing off fluids." *Letters Patent sealed.*

HULL. 7th April 1855.

773. JOSEPH HULL, of Liverpool, in the County of Lancaster, for an invention for—"Improvements in the machinery and apparatus for grinding corn." *Letters Patent sealed.*

ARESTI. 7th April 1855.

774. JOSEPH ARESTI, of Greek Street, Soho Square, in the County of Middlesex, Lithographer, for an invention for—"A method of obtaining improved effects upon drawings washed or painted on stone." *Letters Patent sealed.*

HUSBAND. MALLINSON. 7th April 1855.

775. RICHARD HUSBAND, of Manchester, in the County of Lancaster, Hat manufacturer, and GEORGE MALLINSON, of the same place, Pattern designer, for an invention for—"An improvement in the manufacture of hat plush." *Provisional protection only.*

JONES. 7th April 1855.

776. DAVID GRIFFITHS JONES, of No. 14, Harrington Square, Hampstead Road, Middlesex, M.D., for an invention for—"A new or improved farinaceous food." *Provisional protection only.*

WALKER. 7th April 1855.

777. GEORGE WALKER, of Belfast, in the County of Antrim, Spinning manager, for an invention for—"An improvement in power-looms."—*Provisional protection only.*

KAY. 9th April 1855.

778. JAMES CLARKSON KAY, of Bury, in the County of Lancaster, Engineer, for an invention for—"Improvements in the construction of pressure and vacuum gauges." *Provisional protection only.*

TUER. HODGSON. HALL. HALL. 9th April 1855.

779. WILLIAM TUER, WILLIAM HODGSON, and ROBERT HALL, Machine makers, and SAMUEL HALL, Foreman, all of Bury, in the County of Lancaster, for an invention for—"Certain improvements in looms for weaving." *Letters Patent sealed.*

O'CALLAGHAN. 9th April 1855.

780. EDWARD O'CALLAGHAN, Lieutenant of Her Majesty's 51st Light Infantry, for an invention for—"Improvements in ordnance, and in projectiles applicable to ordnance and small arms." *Letters Patent sealed.*

COPE. 9th April 1855.

781. DAVID COPE, of Birmingham, in the County of Warwick, Manufacturer, for an invention for—"Improvements in the manufacture of metallic spoons, forks, and ladles." *Letters Patent sealed.*

BULL. 9th April 1855.

782. WILLIAM BULL, of Ramsey, in the County of Essex, Clerk, for an invention for—"An improved instrument for cutting or slicing turnips and other vegetables." *Stopped at fiat.*

BELLFORD. 9th April 1855.

783. AUGUSTE EDOUARD LORADOUX BELLFORD, of Essex Street, Strand, London, Patent agent, for an invention for—"Improvements in pumps."—*A communication from John Hoyes M'Gowan, Junior, of Cincinnati, United States.* *Letters Patent sealed.*

RICKETTS. BULLEY. 10th April 1855.

784. WILLIAM RICKETTS, and THOMAS BULLEY, both of Stepney, in the County of Middlesex, Painters and Grainers, for an invention for—"Improvements in producing ornamental designs on painted or japanned table covers." *Letters Patent sealed.*

FIELDING. 10th April 1855.

785. SAMUEL FIELDING, the younger, of Green, in the Township of Weirdle and Wardle, in the parish of Rochdale, in the County of Lancaster, for an invention for—"Improvements in apparatus for oiling or lubricating the pistons of steam-engines." *Letters Patent sealed.*

FONTAINEMOREAU. 10th April 1855.

786. PETER ARMAND LE COMTE DE FONTAINEMOREAU, of the English and Foreign Patent Office for inventions, 4, South Street, Finsbury, London, and 39, Rue de l'Echiquier, Paris, for an invention for—"Certain improvements in the construction of steam-boilers."—*A communication from Mons' S. Boutigny, of Paris, France.* *Letters Patent sealed.*

CHAPLIN. 10th April 1855.

787. ALEXANDER CHAPLIN, of Glasgow, in the County of Lanark, North Britain, Engineer, for an invention for—"Improvements in steam-boilers and in the combustion of fuel." *Letters Patent sealed.*

JOHNSON. 10th April 1855.

788. JOHN HENRY JOHNSON, of 47, Lincoln's Inn Fields, in the County of Middlesex, and of Glasgow, North Britain, Gentleman, for an invention for—"Improvements in machinery or apparatus for combing wool and other fibrous substances."—*A communication from Victor Brosser, of Beauvais, in the Empire of France.* *Letters Patent sealed.*

JOHNSON. 10th April 1855.

789. JOHN HENRY JOHNSON, of 47, Lincoln's Inn Fields, in the County of Middlesex, and of Glasgow, North Britain, Gentleman, for an invention for—"Improvements in machinery or apparatus for preparing cotton and other fibrous substances."—*A communication from Jean Beugger, of Wülflingen, Switzerland.—Letters Patent sealed.*

MONZANI. 10th April 1855.

790. LOUISA MONZANI, Widow and administratrix of Willoughby Theobald Monzani, late of St. James's Terrace, Blue Anchor Road, Bermondsey, Gentleman, deceased, for an invention for—"Improvements in folding stools and folding chairs"—*A communication from her said late husband.* *Letters Patent sealed.*

BEAUCLERK. 10th April 1855.

791. LORD CHARLES BEAUCLERK, of the Riding, Northumberland, for an invention for—"Improvements in machinery for tilling and subsoil ploughing." *Letters Patent sealed.*

EDGE. 11th April 1855.

792. JONATHAN EDGE, of Bolton-le-Moors, in the County of Lancaster, Engineer, for an invention for—"Improvements in steam-engines."—*Provisional protection only.*

ADDISON. SINCLAIR. 11th April 1855.

793. JOHN ADDISON, of No. 23, Basinghall Street, in the City of London, Captain in the Honourable East India Company's service, and DUNCAN SINCLAIR, of No. 122, Oxford Street, in the County of Middlesex, Gentleman, for an invention for—"Improvements in the manufacture of bayonet scabbards, sword scabbards, pistol cases, and holsters." *Provisional protection only.*

BLUNT. WATSON. 11th April 1855.

794. CHARLES BLUNT, of Wanstead, in the County of Essex, Gentleman, and JOSEPH JOHN WILLIAM WATSON, of Wandsworth, in the County of Surrey, Doctor of Philosophy, for an invention for—"Improvements in the composition of artificial fuel, with the machinery employed in the manufacture thereof."—*Letters Patent sealed.*

OUDRY. OUDRY. 11th April 1855.

795. LEOPOLD OUDRY, Electro-Metallurgist, and ALPHONSE OUDRY, Imperial Government Engineer, both of Paris, in the Empire of France, and of 4, South Street, Finsbury, London, for an invention for—"Certain improvements in preserving wood, metal, and other substances." *Letters Patent sealed.*

ALDERMAN. 11th April 1855.

796. JOHN ALDERMAN, of Denmark Street, in the County of Middlesex, Manufacturer, for an invention for—"Improvements in the construction of adjustable couches, chairs, and other similar descriptions of furniture for invalids." *Letters Patent sealed.*

FLETCHER. 11th April 1855.

797. JAMES FLETCHER, of Facit, near Rochdale, in the County of Lancaster, Manager, for an invention for—"Improvements in and applicable to machines for spinning and weaving cotton-wool and other fibrous materials."—*Letters Patent sealed.*

HEMMING. 11th April 1855.

798. FREDERICK SHAND HEMMING, of Birkenhead, in the County of Chester, Engineer, for an invention for—"Improvements in the construction of buildings, which improvements are particularly applicable to military and other hospitals." *Provisional protection only.*

DOPTER. 11th April 1855.

799. JEAN VINCENT MARIE DOPTER, of Paris, in the Empire of France, and of 32, Essex Street, Strand, London, for an invention for—"Certain improvements in printing fabrics." *Letters Patent sealed.*

PASQUIER. 11th April 1855.

800. EUGÈNE PASQUIER, Engineer, of Rheims (France), and of 32, Essex Street, (Strand) London, for an invention for—"An improved machine to be used for drying wool and other fibrous materials."—*Complete specification.* *Letters Patent sealed.*

HOLT. 11th April 1855.

801. SAMUEL HOLT, of Shaw Heath, Stockport, in the County of Chester, Manager, for an invention for—"Improvements in weaving plush or piled fabrics." *Letters Patent sealed.*

WILSON. HANSON. WALLIS. 11th April 1855.

802. GEORGE FERGUSSON WILSON, CONRAD ABBEN HANSON, and JAMES JOHN WALLIS, all of Belmont, Vauxhall, for an invention for—"Improvements in the manufacture of lamp candles, and in candle lamps for holding the same." *Letters Patent sealed.*

DEVY. 11th April 1855.

803. PHILIPPE AMÉDÉE DEVY, of 10, Old Jewry Chambers, Old Jewry, for an invention for—"Improvements in the construction of coke ovens."—*A communication.* *Letters Patent sealed.*

WILSON. PAYNE. 11th April 1855.

804. GEORGE FERGUSSON WILSON, and GEORGE PAYNE, of Belmont, Vauxhall, for an invention for—"An improvement in ornamenting glass."—*Letters Patent sealed.*

NORTON. 11th April 1855.

805. JAMES LEE NORTON, of Holland Street, Blackfriars, for an invention for—"Improvements in separating wool and other animal fibres from vegetable matters, and in drying wool and other animal fibres." *Letters Patent sealed.*

HJORTH. 11th April 1855.

806. SOREN HJORTH, of Copenhagen, for an invention for—"An improved magneto-electric battery."—*Complete specification.* *Letters Patent sealed.*

HJORTH. 11th April 1855.

807. SOREN HJORTH, of Copenhagen, for an invention for—"An improved electro-magnetic machine."—*Complete specification.* *Letters Patent sealed.*

HJORTH. 11th April 1855.

808. SOREN HJORTH, of Copenhagen, for an invention for—"An improved electro-magnetic machine."—*Complete specification.* *Letters Patent sealed.*

RICHARDSON. MALLINSON. 12th April 1855.

809. ALFRED THOMAS RICHARDSON, Manufacturer, and GEORGE MALLINSON, Pattern Designer, both of the City of Manchester, for an invention for—"Improvements in the manufacture of certain piled fabrics." *Letters Patent sealed.*

WILHELMY. 12th April 1855.

810. FERDINAND WILHELMY, Engineer, in Dusseldorf, in the Kingdom of Prussia, for an invention for—"Border paddles for steam-boat wheels." *Stopped at fiat.*

VERNON. 12th April 1855.

811. ISAIAH VERNON, of West Bromwich, in the County of Stafford, Manufacturer for an invention for—"An improvement or improvements in the slide valves of steam-engines." *Letters Patent sealed.*

TERRY. 12th April 1855.

812. WILLIAM TERRY, of Francis Street, Aston, Birmingham, in the County of Warwick, Gun maker, for an invention for—"Improvements appertaining to breech loading fire-arms." *Letters Patent sealed.*

CUNINGHAME. 12th April 1855.

813. ALEXANDER CUNINGHAME, of Glasgow, in the County of Lanark, North Britain, Iron master, for an invention for—"Improvements in the manufacture or production of sulphuric acid, and sulphates of iron and alumina."—*Letters Patent sealed.*

LALEMAN. 12th April 1855.

814. JULES LALEMAN, of Lille, in the Empire of France, one of the members of the firm of Canyn and Company, which consists of Victor Canyn, Crispin Lenty, William Lenty, and Jules Laleman, all of Lille aforesaid, for an invention for—"Improved machinery for combing flax and other similar fibrous materials."—*A communication.* *Letters Patent sealed.*

BAGARY. PERRON. 13th April 1855.

815. JEAN BAPTISTE BAGARY, and CLAUDE PERRON, of Paris, in the Empire of France, and of 32, Essex Street, Strand, London, for an invention for—"New or improved knitting machinery." *Letters Patent sealed.*

TEMPLETON. 13th April 1855.

816. JAMES TEMPLETON, of Glasgow, in the County of Lanark, North Britain, Manufacturer, for an invention for—"Improvements in the manufacture of pile fabrics." *Letters Patent sealed.*

WEALLENS. CROW. 13th April 1855.

817. WILLIAM WEALLENS, of 12, Elswick Villas, Newcastle-on-Tyne, Mechanical Engineer, and GEORGE ARTHUR CROW, of Forth Street, Newcastle-on-Tyne, Mechanical Engineer, for an invention for—"Improvements in marine steam-engines." *Provisional protection only.*

REVELL. 13th April 1855.

818. JOSEPH REVELL, of Dukinfield, in the County of Chester, Plasterer, for an invention for—"Certain improvements in machinery or apparatus for propelling vessels." *Stopped at fee.*

WIMPENNY. WIMPENNY. 13th April 1855.

819. THOMAS WIMPENNY, of Holmfirth, in the County of York, Manufacturer, and JONAS WIMPENNY, of Rawtenstall, in the County of Lancaster, Surgeon, for an invention for—"Certain improvements in machinery or apparatus for drawing and spinning wool or wool mixed with other fibrous substances." *Letters Patent sealed.*

JARMAN. 13th April 1855.

820. JOHN JARMAN, of Masborough, in the County of York, for an invention for—"Improvements in horse-shoes." *Stopped at fee.*

BROOMAN. 13th April 1855.

821. RICHARD ARCHIBALD BROOMAN, of 166, Fleet Street, in the City of London, Patent agent, for an invention for—"Improvements in the treatment of fatty and resinous matters, and in preparing them for the manufacture of candles and other articles." *Letters Patent sealed.*

HILL. 13th April 1855.

822. THOMAS HILL, of Walsall, Merchant, for an invention for—"Improvements in the manufacture of horse shoe and other nails."—*A communication.* *Letters Patent sealed.*

TURNER. 13th April 1855.

823. GEORGE TURNER, of Northfleet, in the County of Kent, for an invention for—"Certain improvements in the construction and fitting of tents and marquees." *Letters Patent sealed.*

DENOUAL. 14th April 1855.

824. JULES DENOUAL, of Samares Lodge, Saint Clement's, Jersey, for an invention for—"Certain improved means of enveloping medicinal preparations with soluble substances." *Letters Patent sealed; no specification filed.*

ARMSTRONG. LIVINGSTON. 14th April 1855.

825. JOSEPH ARMSTRONG, of the Normanton Station, Wakefield, and JOHN LIVINGSTON, of Leeds, for an invention for—"Improvements in certain parts of the permanent way of railways." *Provisional protection only.*

GOSSAGE. 14th April 1855.

826. WILLIAM GOSSAGE, of Widnes, in the County of Lancaster, Chemist, for an invention for—"Improvements in the manufacture of certain kinds of soap." *Provisional protection only.*

HERBERT. 14th April 1855.

827. JANE ANN HERBERT, of No. 5, Waterden Place, Guildford, in the County of Surrey, Widow, for an invention for—"Improvements in propellers for vessels, which are denominated the conical propellers."—*A communication from William D. Jones, of Pokeepsie, and Henry Whinfield, of New York, both in the State of New York, United States of America.* *Stopped at fee.*

REID. 14th April 1855.

828. WILLIAM REID, of Holehouse Neilston, in the County of Renfrew, North Britain, Bleacher, for an invention for—"Improvements in the treatment, cleansing, starching, and finishing of textile fabrics." *Stopped at fee.*

KENNEDY. 14th April 1855.

829. THOMAS KENNEDY, of Kilmarnock, in the County of Ayr, North Britain, Gun manufacturer, for an invention for—"Improvements in shot or projectiles." *Stopped at fee.*

SCULFORT. 14th April 1855.

830. GUSTAVE IRENÉE SCULFORT, of Mauberge, in the Empire of France, Manufacturer, for an invention for—"An improvement in screw wrenches." *Letters Patent sealed.*

FONTAINEMOREAU. 16th April 1855.

831. PETER ARMAND LE COMTE DE FONTAINEMOREAU, of 4, South Street, Finsbury, London, and 39, Rue de l'Echiquier, Paris, Patent agent, for an invention for—"Improvements in the production of a felted tissue applicable to replacing leather in the manufacture of cards."—*A communication.* *Letters Patent sealed.*

ORDISH. 16th April 1855.

832. ROWLAND MASON ORDISH, of Copenhagen, in the Kingdom of Denmark, Engineer, for an invention for—"Certain improvements in the permanent way of railways." *Provisional protection only.*

HUSBAND. 16th April 1855.

833. RICHARD HUSBAND, of Manchester, in the County of Lancaster, Hat Manufacturer, for an invention for—"Certain improvements in the manufacture of 'hat plushes' of spun silk and other spun yarns." *Provisional protection only.*

HOLMES. 16th April 1855.

834. HENRY HOLMES, of Clifton Road, Maida Vale, in the County of Middlesex, Doctor of Medicine, and Surgeon, for an invention for—"Certain processes of treating the human body by gases, vapours, and electricity, and for certain apparatus for obtaining and applying the said gases, vapours, and electricity to the above or any other purposes." *Stopped at fiat.*

BENTALL. 16th April 1855.

835. EDWARD HAMMOND BENTALL, of Heybridge, in the County of Essex, Ironfounder, for an invention for—"An improvement in the construction of harrows." *Letters Patent sealed.*

COWLEY. SULLIVAN. 16th April 1855.

836. JOHN COWLEY, of Quennington Paper Mills, Gloucestershire, and DANIEL PEYTON SULLIVAN, of Stockwell, Surrey, for an invention for—"Improvements in the manufacture of paper." *Letters Patent sealed.*

BEARD. 16th April 1855.

837. GEORGE BEARD, of Birmingham, in the County of Warwick, Manufacturer, for an invention for—"An improved label and stamp setter." *Letters Patent sealed.*

BULL. 16th April 1855.

838. WILLIAM BULL, of Lupus Street, Belgrave Road, Pimlico, for an invention for—"Improvements in bearings, bushes, and other surfaces in or upon which shafts, axles, or other bodies move or revolve, also in the said shafts, axles, and other moving or revolving bodies." *Stopped at fiat.*

CALLEN. WEST. LEWIS. 17th April 1855.

839. ARTHUR WELLINGTON CALLEN, of Camberwell, in the County of Surrey, Gentleman, and JOSEPH WEST, of Guernsey, Engineer, and GEORGE WASHINGTON LEWIS, of Bristol, United States, for an invention for—"Improvements in the construction and fittings of tents especially suitable for military purposes." *Stopped at second reference.*

FONTAINEMOREAU. 17th April 1855.

840. PETER ARMAND LE COMTE DE FONTAINEMOREAU, of 4, South Street, Finsbury, London, and 39, Rue de l'Echiquier, Paris, Patent agent, for an invention for—"Certain improved machinery for manufacturing nails, bolts, rivets, and other similar articles."—*A communication.* *Provisional protection only.*

DEVY. 17th April 1855.

841. PHILIPPE AMÉDÉE DEVY, of 10, Old Jewry Chambers, Old Jewry, for an invention for—"Improvements in the frames of swing looking-glasses."—*A communication.* *Letters Patent sealed.*

MILLIGAN. 17th April 1855.

842. ROBERT MILLIGAN, of Harden, in the parish of Bingley, in the County of York, Manufacturer, for an invention for—"An improvement in the manufacture of woven fabrics made of wool, mohair, or alpaca." *Letters Patent sealed.*

WILSON. DE LA RUE. 17th April 1855.

843. GEORGE FERGUSSON WILSON, of Belmont, Vauxhall, and WARREN DE LA RUE, of Bunhill Row, for an invention for—"Improvements in combining fluids to be burned in lamps." *Letters Patent sealed.*

CRAPELET. 17th April 1855.

844. CHARLES CRAPELET, of No. 4, Rue des Fossés Montmartre, in the City of Paris, for an invention for—"Improvements in the construction of tompions for cannon and other fire-arms, which improvements are applicable to stopping bottles and other vessels." *Letters Patent sealed.*

ALLEN. 17th April 1855.

845. EDWARD ELLIS ALLEN, of 376, Strand, in the County of Middlesex, Engineer, for an invention for—"Improvements in steam-engines." *Letters Patent sealed.*

LEVY. 17th April 1855.

846. PHILLIP LEVY, of the City of Edinburgh, Furrier to Her Majesty, for an invention for—"An improved wrapper for travelling and personal wear." *Letters Patent sealed.*

CLAPHAM. 17th April 1855.

847. ROBERT CALVERT CLAPHAM, of Ardrossan, in the County of Ayr, North Britain, Analytical Chemist, for an invention for—"Improvements in the manufacture or production of the salts of baryta and of artificial iron pyrites, and in the application thereof in the manufacture or production of salts of soda or other alkaline salts." *Stopped at fiat.*

FOSTER.
17th April 1855.

848. CRANSTON FOSTER, of Warrington, in the County of Lancaster, Machi[nist], for an invention for—"Certain improvements in effecting communication by sign[als] upon railways, and in the apparatus connected therewith."—*Provisional protection* [only].

WOODHOUSE.
18th April 1855.

849. HENRY WOODHOUSE, of Stafford, in the County of Stafford, Engine[er], for an invention for—"Improvements in the construction of crossings for t[he] permanent way of railways." *Letters Patent sealed.*

DANCHELL.
18th April 1855.

850. FREDERICK LUDEWICK HAN DANCHELL, of 4, Arthur Terrace, Caledon[ian] Road, in the County of Middlesex, Engineer, for an invention for—"Improvements in apparatus for increasing, exhausting, or regulating fluids, and indicating pressur[e]." *Provisional protection only.*

DAMERON.
18th April 1855.

851. LOUIS DAMERON, of Paris, Coach manufacturer, and 4, South Str[eet] Finsbury, London, for an invention for—"Improvements in the construction [of] carriages." *Provisional protection only.*

FORDRED.
18th April 1855.

852. JOHN FORDRED, of Hampstead, in the County of Middlesex, Gentlem[an], for an invention for—"Improvements in the production of reflecting surfaces, and in the application of reflecting surfaces to decorative and useful purposes." *Provisional protection only.*

KAY.
18th April 1855.

853. JOHN KAY, of Bonhill, in the County of Dumbarton, North Britain, Cal[ico] Printer, for an invention for—"Improvements in preparing and printing textile fabrics and other surfaces." *Letters Patent sealed.*

BRIDGE.
18th April 1855.

854. RICHARD BRIDGE, of Chadderton, in the County of Lancaster, Manufacturer, for an invention for—"Certain improvements in power looms."—*Letters Patent sealed.*

JOHNSON.
18th April 1855.

855. JOHN HENRY JOHNSON, of 47, Lincoln's Inn Fields, in the County of Middlesex, and of Glasgow, North Britain, Gentleman, for an invention for—"Improvements in machinery or apparatus for moulding and casting fusible or plastic materials, and in covering or coating articles with such materials."—*A communication.* *Stopped at 6d.*

COOK.
18th April 1855.

856. BENJAMIN COOK, Engineer, of Summer Row, Birmingham in the County of Warwick, for an invention for—"Certain improvements in the construction of horse-shoes, and which said improvements are also applicable to the shoeing of asses, mules, and oxen, when such are used as animals of draught, such shoes being applied in each case without the use of nails." *Provisional protection only.*

MADELEY.
HANLON.
18th April 1855.

857. WILLIAM MADELEY, of the City of Manchester, in the County of Lancaster, Machinist, and THOMAS HANLON, of the same place, Mechanic, for an invention for—"An improvement in or applicable to power looms." *Letters Patent sealed.*

LAWSON.
DEAR.
18th April 1855.

858. JOHN LAWSON, of Leeds, in the County of York, Machine maker, and SOMERVILLE DEAR, of the same place, Machine maker, for an invention for—"Improvements in machinery for combing and cleaning flax, tow, wool, and cotton, and other fibrous substances." *Letters Patent sealed.*

RUSSELL.
18th April 1855.

859. FREDERICK RUSSELL, of 13, Cumberland Market, Regent's Park, in the County of Middlesex, Mechanic, for an invention for—"Improvements in hanging window-sashes." *Stopped at 6d.*

HARVEY.
18th April 1855.

860. HENRY HARVEY, of No. 73, Denbigh Street, Pimlico, in the County of Middlesex, Gentleman, for an invention for—"The application of cork in all its forms in the manufacture of beds, mattresses, cushions, and seats."—*Provisional protection only.*

EDWARDS.
18th April 1855.

861. WILLIAM VAUGHAN EDWARDS, of Swindon, in the County of Wilts, Ironmonger, for an invention for—"An improved economic portable boiler and cooking apparatus." *Provisional protection only.*

PALLIER.
TAYLOR.
19th April 1855.

862. DUMONT PALLIER, of Broad Street, Lambeth, in the County of Surrey, Grease manufacturer, and EDWARD TAYLOR, of the same place, Manufacturing Chemist, for an invention for—"Improvements in the manufacture of soap." *Provisional protection only.*

LEES. 19th April 1855.

863. THOMAS LEES, of Birmingham, in the County of Warwick, Manufacturer, for an invention for—"An improvement or improvements in metallic pens." *Letters Patent sealed.*

HOWES. HOWES. 19th April 1855.

864. EDWARD HOWES, of Birmingham, in the County of Warwick, Manufacturer, and WALTER HOWES, of Birmingham aforesaid, Manufacturer, for an invention for—"Improvements in carriage lamps." *Letters Patent sealed.*

JACKSON. 19th April 1855.

865. THOMAS JACKSON, of Commercial Road, Pimlico, in the County of Middlesex, Contractor for public works, for an invention for—"Improvements in signals for railway trains." *Provisional protection only.*

HINDLE. 19th April 1855.

866. JAMES HINDLE, of Accrington, in the County of Lancaster, Machine printer, for an invention for—"Improvements in machinery or apparatus used in the process of printing woven fabrics." *Stopped at fiat.*

BISHOP. 19th April 1855.

867. WILLIAM BISHOP, of Old Fish Street Hill, Upper Thames Street, in the City of London, Stationer, for an invention for—"An improved mode of ornamenting writing papers." *Provisional protection only.*

NEWTON. 19th April 1855.

868. ALFRED VINCENT NEWTON, of the Office for Patents, 66, Chancery Lane, in the County of Middlesex, Mechanical Draughtsman, for an invention for—"Improved machinery for crushing and grinding mineral and other substances."—*A communication.* *Letters Patent sealed.*

CONGREVE. 19th April 1855.

869. CHARLES M'ILVAINE CONGREVE, Merchant, of New York, in the United States of America, for an invention for—"Improvements in the manufacture of iron when oxyde iron ores are used."—*A communication from Charles Congreve.* *Letters Patent sealed.*

JONES. 19th April 1855.

870. WILLIAM JONES, of Rhodes, near Middleton, in the County of Lancaster, Machine printer, for an invention for—"Improvements in printing calico and other fabrics." *Letters Patent sealed.*

LEAR. 19th April 1855.

871. PETER LEAR, of Boston, in the County of Suffolk, and State of Massachusetts, United States of America, for an invention for—"An improved method of arranging and operating horizontal submerged propellers." *Letters Patent sealed.*

JACOT. 19th April 1855.

872. FRANÇOIS JACOT, of 18, Rue du Jeuneuse, in the City of Paris, for an invention for—"An improvement in the manufacture of starch, and in obtaining and treating the gluten." *Letters Patent sealed.*

SAVORY. 19th April 1855.

873. WILLIAM SAVORY, Engineer, of the City of Gloucester, for an invention for—"Improvements in machinery for crushing grain and other substances, and for cutting chaff." *Letters Patent sealed.*

ATHERTON. BOYES. LANCASTER. 19th April 1855.

874. JOHN ATHERTON, of Preston, in the County of Lancaster, Machine maker, WILLIAM BOYES, of the same place, Manufacturer, and WILLIAM LANCASTER, of the same place, Manufacturer, for an invention for—"Improvements in temples employed in the manufacture of textile fabrics." *Letters Patent sealed.*

JOHNSON. 19th April 1855.

875. JOHN HENRY JOHNSON, of 47, Lincoln's Inn Fields, in the County of Middlesex, and of Glasgow, North Britain, Gentleman, for an invention for—"Improvements in the manufacture of articles of hard india-rubber or gutta-percha, or compounds thereof, and in coating or covering articles with the like materials."—*A communication.* *Letters Patent sealed.*

JOHNSON. 19th April 1855.

876. JOHN HENRY JOHNSON, of 47, Lincoln's Inn Fields, in the County of Middlesex, and of Glasgow, North Britain, Gentleman, for an invention for—"Improvements in railway breaks."—*A communication.* *Provisional protection only.*

PEARCE. 20th April 1855.

877. JAMES CHARLES PEARCE, of the Bowling Iron works, near Bradford, in the County of York, Engineer, for an invention for—"Improvements in making the joints of pipes and other articles." *Letters Patent sealed.*

TARDIEU. 20th April 1855.

878. LUCIEN TARDIEU, of 39, Rue de l'Echiquier, Paris, in the Empire of France, and of 4, South Street, Finsbury, London, Gentleman, for an invention for—"A new mode of producing letters and figures, for signs, show-boards, fronts of shops, houses, and other places." *Provisional protection only.*

RYDER. 20th April 1855.

879. WILLIAM RYDER, of Bolton-le-Moors, in the County of Lancaster, for an invention for—"Improvements in certain parts of machinery for slubbing and roving cotton and other fibrous substances." *Letters Patent sealed.*

MACÉ. 20th April 1855.

880. HYPOLITE MACÉ, of Paris, in the Empire of France, Merchant, for an invention for—"Improvements in transferring colours or metals in design on and from paper and stone, on to surfaces."—*A communication from L. A. C. Macé, of Paris.* *Letters Patent sealed.*

MAURICE. 20th April 1855.

881. CLAUDE LAURENT VICTOR MAURICE, Civil Engineer, of the Town of St. Etienne (Loire) in the French Empire, for an invention for—"Certain improvements in carbonizing coal and in apparatus to be employed therein." *Letters Patent sealed.*

MANNING. 20th April 1855.

882. JAMES ALEXANDER MANNING, of the Inner Temple, in the County of Middlesex, Esquire, for an invention for—"Improvements in effecting the agitation of fluids and solid matters contained therein." *Stopped at fiat.*

LORD. 20th April 1855.

883. JOHN LORD, of Rochdale, in the County of Lancaster, Manufacturer, for an invention for—"Improvements in 'temples' for power looms." *Provisional protection only.*

LISTER. 20th April 1855.

884. SAMUEL CUNLIFFE LISTER, of Bradford, in the County of York, Manufacturer, for an invention for—"Improvements in treating the rhea plant so as better to prepare its fibres before being spun." *Letters Patent sealed.*

ALLEN. 20th April 1855.

885. HORATIO ALLEN, of the Novelty Iron works, New York, in the United States of America, Civil Engineer, for an invention for—"Improvements in the valves of steam and other engines." *Letters Patent sealed.*

BRIGHT. 20th April 1855.

886. RICHARD BRIGHT, of Bruton Street, in the City of Westminster, Lamp manufacturer, for an invention for—"Improvements in lamps and in lamp wicks." *Letters Patent sealed.*

BENNETT. 20th April 1855.

887. WILLIAM LEE BENNETT, of Wolston, in the County of Warwick, Gentleman, for an invention for—"An improvement or improvements in seed drills." *Provisional protection only.*

NEWTON. 20th April 1855.

888. ALFRED VINCENT NEWTON, of the Office for Patents, 66, Chancery Lane, in the County of Middlesex, Mechanical Draughtsman, for an invention for—"Improved machinery for manufacturing bolts and other like articles."—*A communication.* *Letters Patent sealed.*

DRURY. 20th April 1855.

889. JOHN DRURY, of Paddock, near Huddersfield, in the County of York, Machine maker, for an invention for—"Improvements in steam-boilers for preventing explosion thereof." *Stopped at fiat.*

PETTITT. 21st April 1855.

890. EDWIN PETTITT, of Manchester, in the County of Lancaster, for an invention for—"Improvements in preparing and spinning cotton and other fibrous substances, and in machinery for such purposes." *Letters Patent sealed.*

GERHARDI. 21st April 1855.

891. WILLIAM GERHARDI, of the City of Manchester, Mechanic, for an invention for—"Improvements in apparatus to prevent the lapping of straps round shafts." *Letters Patent sealed; no specification filed.*

HADFIELD. 21st April 1855.

892. WILLIAM HADFIELD, of the City of Manchester, Spinner and manufacturer, for an invention for—"Certain improvements in looms for weaving." *Letters Patent sealed.*

SCHOOFS. 21st April 1855.

893. HENRI SCHOOFS, of Saint Gilles, near Brussels, in the Kingdom of Belgium, for an invention for—"Improvements in making, fixing, or attaching artificial teeth, gums, and palates."—*Complete specification.* *Letters Patent sealed.*

BARNETT. 21st April 1855.

894. JOHN BARNETT, of 134, Minories, in the City of London, for an invention for—"Improvements in smiths' hearths."—*A communication from Jean August Petry, of Leige.* *Provisional protection only.*

SHARP. WEILD. 21st April 1855.

895. WILLIAM PRIOR SHARP, and WILLIAM WEILD, both of the City of Manchester, in the County of Lancaster, Machinists, for an invention for—"Improvements in the manufacture and in machinery for the manufacture of spun or thrown silk threads." *Letters Patent sealed.*

JOHNSON. 21st April 1855.

896. JOHN HENRY JOHNSON, of 47, Lincoln's Inn Fields, in the County of Middlesex, and of Glasgow, North Britain, Gentleman, for an invention for—"Improvements in the consumption or prevention of smoke."—*A communication from Réné Garçon, of Paris, in the Empire of France, Accountant.* *Letters Patent sealed.*

JOHNSON. 21st April 1855.

897. JOHN HENRY JOHNSON, of 47, Lincoln's Inn Fields, in the County of Middlesex, and of Glasgow, North Britain, Gentleman, for an invention for—"Improvements in machinery or apparatus for spinning cotton and other fibrous materials."—*A communication from Mess" Constant Pengeot and Company, of Andincourt, in the Empire of France, Manufacturers.* *Letters Patent sealed.*

WINTER. 21st April 1855.

898. WILLIAM WINTER, of Carlton Hill, in the County of Nottingham, Manufacturer, for an invention for—"Certain improvements in the manufacture of warp looped fabrics." *Letters Patent sealed.*

EDWARDS. 21st April 1855.

899. WILLIAM ALEXANDER EDWARDS, of 87, Brook Street, West Square, Lambeth, in the County of Surrey, Engineer, for an invention for—"Separating certain metals from metallic substances." *Provisional protection only.*

SCHAEFFER. 21st April 1855.

900. WILLIAM CHARLES THEODORE SCHAEFFER, of Bradford, in the County of York, Manufacturer, for an invention for—"Improvements in the treatment of the waste wash-waters of wool and other mills." *Letters Patent sealed.*

WALSH. BRIERLEY. 21st April 1855.

901. SAMUEL WALSH, and JOHN HENRY BRIERLEY, Smallware manufacturers, carrying on business under the firm of Walsh and Brierley, at Stannary Works, Halifax, and 25, Noble Street, Cheapside, London, for an invention for—"A clasp or fastener for belts, bands, or straps." *Letters Patent sealed.*

BALAN. 23rd April 1855.

902. ALEXANDRE BALAN, of Paris, in the Empire of France, Engineer, for an invention for—"Improvements in transporting passengers and goods." *Letters Patent sealed.*

WHITWORTH. 23rd April 1855.

903. JOSEPH WHITWORTH, of the City of Manchester, in the County of Lancaster, Engineer, for an invention for—"Improvements in ordnance, fire-arms, projectiles, and machinery for the manufacture thereof." *Letters Patent sealed.*

WRIGHT. BRIMBLE. 23rd April 1855.

904. JOSEPH WRIGHT, of 12, Sussex Terrace, Islington, Machinist, and EDWARD BRIMBLE, of 32, Cheapside, Warehouseman, both in the County of Middlesex, for an invention for—"Improvements in the manufacture of stays or corsets, and in the means or method of fastening the same." *Letters Patent sealed.*

ORR. TEMPLETON. 23rd April 1855.

905. JOHN ORR, of Glasgow, in the County of Lanark, North Britain, Manager, and JAMES TEMPLETON, of the same place, Manufacturer, for an invention for—"Improvements in the manufacture of figured fabrics." *Letters Patent sealed.*

JENKIN. 23rd April 1855.

906. ALFRED JENKIN, of Zell on the Moselle, in the Kingdom of Prussia, Engineer, for an invention for—"Improvements in furnaces for the reduction and calcination of lead and copper ores." *Letters Patent sealed.*

NEWTON. 23rd April 1855.

907. ALFRED VINCENT NEWTON, of the Office for Patents, 66, Chancery Lane, in the County of Middlesex, Mechanical Draughtsman, for an invention for—"Improved machinery for separating substances of different specific gravity."—*A communication.* *Letters Patent sealed.*

GOSSAGE. 23rd April 1855.

908. WILLIAM GOSSAGE, of Widnes, in the County of Lancaster, Chemist, for an invention for—"Improvements in the manufacture of certain kinds of soap." *Letters Patent sealed.*

ILIFFE. NEWMAN. 23rd April 1855.

909. HENRY JEREMIAH ILIFFE, and JAMES NEWMAN, both of Birmingham, in the County of Warwick, Manufacturers, for an invention for—"Improvements in the manufacture of covered buttons."—*Complete specification.* *Letters Patent sealed.*

TAYLOR. 24th April 1855. **910.** JOSEPH TAYLOR, of King Street, in the City of Westminster, Gentleman, for an invention for—"Improvements in propelling vessels."—*Provisional protection only.*

RICHARDS. 24th April 1855. **911.** WILLIAM WESTLEY RICHARDS, of Birmingham, in the County of Warwick, Gun manufacturer, for an invention for—"An improvement or improvements in repeating or revolving fire-arms." *Letters Patent sealed.*

HORSFALL. 24th April 1855. **912.** JOSIAH HORSFALL, of Manchester, in the County of Lancaster, Joiner, for an invention for—"Machinery for mitreing moulded and other sashes." *Letters Patent sealed.*

HUNTER. HUNTER. 24th April 1855. **913.** JAMES HUNTER, and GEORGE HUNTER, both of Leysmill, in the County of Forfar, Engineers, for an invention for—"Improvements in stone cutting machinery." *Letters Patent sealed.*

M'KENNA. 24th April 1855. **914.** FRANCIS M'KENNA, of Salford, in the County of Lancaster, Manager, for an invention for—"Certain improvements in power looms for weaving." *Provisional protection only.*

UTTING. 24th April 1855. **915.** FREDERIC JAMES UTTING, of Wisbeach, in the County of Cambridge, Engineer and Ironfounder, for an invention for—"Improvements in land rollers and clod crushers." *Letters Patent sealed.*

MUIR. 24th April 1855. **916.** MATTHEW ANDREW MUIR, of Glasgow, in the County of Lanark, North Britain, Machinist, for an invention for—"Improvements in the manufacture or moulding of railway chairs." *Letters Patent sealed.*

SMYTH. 24th April 1855. **917.** CHARLES PIAZZI SMYTH, of Hillside Crescent, Edinburgh, for an invention for—"Improvements in astronomical and geodetical instruments." *Letters Patent sealed.*

JORDAN. 24th April 1855. **918.** CHARLES JORDAN, of Newport, in the County of Monmouth, Iron founder, for an invention for—"An improvement in discharging cannon." *Provisional protection only.*

COCKCROFT. 25th April 1855. **919.** HENRY COCKCROFT, of Haslingden, in the County of Lancaster, Stationer, for an invention for—"A self-registering letter-box." *Letters Patent sealed.*

SYMINGTON. 25th April 1855. **920.** WILLIAM SYMINGTON, of Little Bowden, in the County of Northampton, Coffee Roaster, for an invention for—"An improvement in preparing peas and pearl and Scotch barley for culinary purposes."—*Complete specification. Letters Patent sealed.*

AVISSE. 25th April 1855. **921.** LOUIS ALEXANDRE AVISSE, of Paris, in the Empire of France, Piano-forte Manufacturer, for an invention for—"Improvements in lubricating revolving shafts of all descriptions, and also the axles of railway and other wheels."—*Letters Patent sealed.*

CROSSKILL. 25th April 1855. **922.** ALFRED CROSSKILL, of Beverley, in the County of York, Civil Engineer, for an invention for—"Improvements in machinery for cutting and reaping corn, grass, and other crops." *Provisional protection only.*

WALLACE. 25th April 1855. **923.** JAMES WALLACE, Junior, of Glasgow, in the County of Lanark, North Britain, Manufacturer, for an invention for—"Improvements in bleaching, washing, or cleansing textile fabrics and materials." *Letters Patent sealed.*

MASON. 25th April 1855. **924.** MARK MASON, of Dukinfield, in the County of Chester, Machinist, for an invention for—"Improved machinery or apparatus for manufacturing metallic 'sole tips' and 'heels' for clogs, boots, or other coverings for the feet." *Letters Patent sealed.*

VICTORY. 25th April 1855. **925.** JOHN JOSEPH VICTORY, of Henrietta Street, in the County of Middlesex, Carpenter, for an invention for—"Certain apparatus for marking out curved lines upon wood and stone, specially adapted to the marking out of hand railings, together with improved machinery for boring and sawing wood." *Letters Patent sealed*

BLACK. 25th April 1855. **926.** JOHN BLACK, of Hampstead Road, in the County of Middlesex, Sculptor, for an invention for—"Improvements in axles, shafts, and bearings."—*Letters Patent sealed.*

HUNTER. 25th April 1855.

927. JOHN HUNTER, of Liverpool, in the County of Lancaster, Gentleman, for an invention for—"Improvements in the distillation of turpentine and other resinous substances."—*A communication.* *Provisional protection only.*

BELLFORD. 25th April 1855.

928. AUGUSTE EDOUARD LORADOUX BELLFORD, of 32, Essex Street, Strand, London, Patent agent, for an invention for—"A new and improved machine for planing screw nuts and bars of any prismatic form."—*A communication.* *Provisional protection only.*

BELLFORD. 25th April 1855.

929. AUGUSTE EDOUARD LORADOUX BELLFORD, of 32, Essex Street, Strand, London, Patent agent, for an invention for—"An improved gas regulator."—*A communication.* *Letters Patent sealed.*

BELLFORD. 25th April 1855.

930. AUGUSTE EDOUARD LORADOUX BELLFORD, of 32, Essex Street, Strand, London, Patent agent, for an invention for—"Improvements in the manufacture of seamless garments or other useful articles of felt."—*A communication.* *Letters Patent sealed.*

BELLFORD. 25th April 1855.

931. AUGUSTE EDOUARD LORADOUX BELLFORD, of 32, Essex Street, Strand, London, Patent agent, for an invention for—"Improvements in scales or machines for weighing."—*A communication.* *Letters Patent sealed.*

WILKIN. 25th April 1855.

932. JOHN BRYANT WILKIN, of Helston, in the County of Cornwall, for an invention for—"Improvements in stamping and dressing or separating ores of any kind but more especially tin ores." *Provisional protection only.*

BELLFORD. 25th April 1855.

933. AUGUSTE EDOUARD LORADOUX BELLFORD, of 32, Essex Street, Strand, London, Patent agent, for an invention for—"An improved chaff-cutting machine."—*A communication.* *Provisional protection only.*

BELLFORD. 25th April 1855.

934. AUGUSTE EDOUARD LORADOUX BELLFORD, of 32, Essex Street, Strand, London, Patent agent, for an invention for—"A new and improved lock for sliding doors."—*A communication.* *Letters Patent sealed.*

ANGER. 25th April 1855.

935. FRANÇOIS JOSEPH ANGER, of No. 16, Stamford Street, Blackfriars Road, in the County of Surrey, Merchant, for an invention for—"A new metallic alloy."—*A communication.* *Letters Patent sealed.*

DRAPER. 25th April 1855.

936. SAMUEL DRAPER, of Lenton, near Nottingham, for an invention for—"Improvements in apparatus for retarding and stopping railway trains." *Letters Patent sealed.*

JEFFREYS. 25th April 1855.

937. JULIUS JEFFREYS, of Kingston Hill, in the County of Surrey, for an invention for—"Improvements in engines or machines for raising, diffusing, or injecting fluids." *Letters Patent sealed.*

FRANKLAND. 25th April 1855.

938. EDWARD FRANKLAND, of Owen's College, Manchester, in the County of Lancaster, for an invention for—"Improvements in the treatment of certain salts commonly called alums, to obtain products therefrom." *Letters Patent sealed.*

HUDDART. 25th April 1855.

939. GEORGE AUGUSTUS HUDDART, of Brynkir, in the County of Caernarvon, Esquire, for an invention for—"Improved machinery for obtaining motive-power from running waters." *Provisional protection only.*

PEABODY. 25th April 1855.

940. JOSEPH PEABODY, of Old Broad Street, in the City of London, Gentleman, for an invention for—"An improved construction of hay-making machine."—*A communication.* *Provisional protection only.*

SILVESTER. 25th April 1855.

941. JOHN SILVESTER, of Smethwick, in the County of Stafford, Engineer, for an invention for—"Improvements in spring balances and in their connection and adjustment to steam valves." *Letters Patent sealed.*

HUDDART. 25th April 1855.

942. GEORGE AUGUSTUS HUDDART, of Brynkir, in the County of Caernarvon, Esquire, for an invention for—"Improved machinery for obtaining and applying motive-power." *Provisional protection only.*

ELCE. BOND. 26th April 1855.

943. JOHN ELCE, and JOHN BOND, both of Manchester, in the County of Lancaster, Machinists, for an invention for—"Improvements in casing, guarding, and protecting revolving shafts and mill work in general." *Provisional protection only.*

FONTAINEMOREAU. 26th April 1855.

944. PETER ARMAND LE COMTE DE FONTAINEMOREAU, of 39, Rue de l'Echiquier, Paris, in the Empire of France, and of 4, South Street, Finsbury, London, Patent agent, for an invention for—"Improvements in apparatus for preventing the escape of fluids, which he calls Diaphragm obturator."—*A communication. Letters Patent sealed.*

BELLFORD. 26th April 1855.

945. AUGUSTE EDOUARD LORADOUX BELLFORD, of 32, Essex Street, Strand, London, Patent agent, for an invention for—"A new combination of slide valves and ports for the induction and eduction of steam or other elastic fluid in steam-engines or other engines of similar character."—*A communication. Letters Patent sealed.*

SHEARS. 26th April 1855.

946. WILLIAM SHEARS, of Bankside, Southwark, for an invention for—"An improvement in cases or magazines for gunpowder or other explosive preparations or compounds." *Letters Patent sealed.*

BURLEY. 26th April 1855.

947. THOMAS HALEY BURLEY, of the State of Ohio, of the United States of America, for an invention for—"A new and useful machine for making dovetails." *Letters Patent sealed.*

COIGNET. 27th April 1855.

948. ROBERT PAUL COIGNET, Captain en retraite du Génie, of Rue du Bac, 42, Paris, France, and of 4, South Street, Finsbury, London, for an invention for—"Certain improvements for rendering tissues waterproof." *Letters Patent sealed.*

FONTAINEMOREAU. 27th April 1855.

949. PETER ARMAND LE COMTE DE FONTAINEMOREAU, of 39, Rue de l'Echiquier, Paris, in the Empire of France, and 4, South Street, Finsbury, London, Patent agent, for an invention for—"Application of certain primitive products to the manufacture of bearings, and all parts of apparatus subjected to friction."—*A communication. Provisional protection only.*

CROSSKILL. 27th April 1855.

950. ALFRED CROSSKILL, of Beverley, in the County of York, Civil Engineer, for an invention for—"Improvements in machinery for turning and spreading cut grasses or hay." *Provisional protection only.*

PAGE. 27th April 1855.

951. THOMAS PAGE, of Middle Scotland Yard, in the County of Middlesex, Civil Engineer, for an invention for—"Improvements in ordnance."—*Letters Patent sealed.*

MULLER. GILARDONI. GILARDONI. 27th April 1855.

952. EMILE MULLER, a Civil Engineer, and JOSEPH GILARDONI, and XAVIER GILARDONI, Brothers, established in Paris, Rue de Provence, No. 12, and Quai de la Gare Prolongée, No. 50, à Ivry, for an invention for—"A grooving and clamping hooked tile, by means of which the entire covering of a roof is tied together, a machine for the fabrication of such tile, by which it is continuously delivered from the mould through a peculiar system of delivery, applicable to any matter that may be moulded, and a conterminous succession of furnaces for its burning." *Letters Patent sealed.*

MASSIQUOT. 27th April 1855.

953. JEAN CHARLES GUILLAUME MASSIQUOT, of Paris, in the Empire of France, and of 32, Essex Street, Strand, London, for an invention for—"Certain improvements in lithographic presses, and inking apparatus connected therewith." *Provisional protection only.*

LYONS. 27th April 1855.

954. MORRIS LYONS, of Suffolk Street, Birmingham, in the County of Warwick, Chemist, for an invention for—"An improved enamel for coating metals and bricks." *Complete specification. Letters Patent sealed.*

COLLETT. 27th April 1855.

955. HENRY COLLETT, of 12, Grosvenor Street, St. Peter's Street, Islington, for an invention for—"Improvements in pumps or machinery for raising water or other fluids." *Provisional protection only.*

MYERS. POTTER. 27th April 1855.

956. EDWARD MYERS, of Rotherham, in the County of York, Engineer, and JOHN WRIGHT POTTER, of the same place, Gentleman, for an invention for—"Improvements in stoves for warming apartments." *Stopped at fiat.*

CLARKE. STROUD. 27th April 1855.

957. RICHARD CLARKE, Lamp manufacturer, of the Strand, London, in the County of Middlesex, and JOHN THOMAS STROUD, Lamp manufacturer, of Suffolk Street, Birmingham, in the County of Warwick, for an invention for—"Certain improvements in lighting, applicable to table, street, signal, and other lamps, as also for the constructing, denoting, and regulating the signals and burners of light-houses." *Letters Patent sealed.*

KNOWLES.
KNOWLES.
28th April 1855.

958. THOMAS KNOWLES, and JAMES KNOWLES, both of Manchester, in the County of Lancaster, Engineers, for an invention for—"Improvements in steps and bolsters to be used in machinery for spinning, doubling, winding, and similar processes." *Provisional protection only.*

WARREN.
28th April 1855.

959. DANIEL WARREN, of Exmouth, in the County of Devon, Gentleman, for an invention for—"Certain improvements in obtaining and applying motive-power." *Letters Patent sealed.*

PACKMAN.
28th April 1855.

960. FRANK JAMES WILSON PACKMAN, of Puckeridge, in the County of Herts, Doctor of Medicine, for an invention for—"Improvements in projectiles, in projectile instruments, and in the means of charging the same." *Letters Patent sealed.*

NEWTON.
28th April 1855.

961. ALFRED VINCENT NEWTON, of the Office for Patents, 66, Chancery Lane, in the County of Middlesex, Mechanical Draughtsman, for an invention for—"An improvement in file-cutting machinery."—*A communication.* *Letters Patent sealed.*

CARRETT.
28th April 1855.

962. WILLIAM ELLIOT CARRETT, of the Sun Foundry, Leeds, in the County of York, Engineer, for an invention for—"Improvements in motive-power engines." *Letters Patent sealed.*

MARSH.
28th April 1855.

963. JAMES MARSH, of 13, Store Street, Bedford Square, in the County of Middlesex, Piano-forte manufacturer, for an invention for—"Improvements in the construction of piano-fortes for rendering them more portable." *Letters Patent sealed.*

BURNS.
30th April 1855.

964. ROBERT BURNS, of Liverpool, in the County of Lancaster, Engineer, for an invention for—"Improvements in propelling vessels." *Stopped at fiat.*

ACRES.
30th April 1855.

965. EDWARD ACRES, of Pouldrew Mills, in the County of Waterford, Miller, for an invention for—"Improvements in desiccating and cooling atmospheric air, and the application thereof to useful purposes." *Letters Patent sealed.*

WALLWORTH.
TAYLOR.
30th April 1855.

966. JOHN WALLWORTH, and DANIEL TAYLOR, of the City of Manchester, in the County of Lancaster, for an invention for—"An improved stand pipe for hydrants." *Provisional protection only.*

JOHNSON.
30th April 1855.

967. WILLIAM JOHNSON, of 47, Lincoln's Inn Fields, in the County of Middlesex, and of Glasgow, in the County of Lanark, North Britain, Civil Engineer, for an invention for—"Improvements in regulating the pressure or flow of gas or fluid bodies."—*A communication from Samuel W. Brown, of Lowell, Massachusetts, in the United States of America.* *Letters Patent sealed.*

BUCHANAN.
BARCLAY.
30th April 1855.

968. ARCHIBALD BUCHANAN, of Catrine, in the County of Ayr, North Britain, Manufacturer, and JAMES BARCLAY, of the same place, Manager, for an invention for—"Improvements in beetling or finishing textile fabrics." *Stopped at fiat.*

FRANCIS.
30th April 1855.

969. HENRY FRANCIS, of 456, West Strand, for an invention for—"Improvements in manufacturing boots and shoes." *Letters Patent sealed.*

DÉPIERRE.
30th April 1855.

970. PIERRE DÉPIERRE, Merchant, of 101, Rue de Seine, in the City of Paris, and Empire of France, for an invention for—"Improvements in dyeing, part of which improvements is applicable to the manufacture of ink."—*A communication.* *Letters Patent sealed.*

TORBITT.
1st May 1855.

971. JAMES TORBITT, of Belfast, in the County of Antrim, Ireland, Wine Merchant, for an invention for—"Improvements in the treatment and preservation of a constituent part of the potato." *Stopped at fiat.*

HUNT.
1st May 1855.

972. THOMAS HUNT, of the London and North-Western Railway Engine Works, Crewe, in the County of Chester, Civil Engineer, for an invention for—"Improvements in the permanent ways of railways." *Stopped at fiat.*

EASSIE.
1st May 1855.

973. WILLIAM EASSIE, of the City of Gloucester, Railway Contractor, for an invention for—"Improvements in machinery or apparatus for stopping or retarding railway trains." *Letters Patent sealed.*

KNOCKER. 1st May 1855.

974. GEORGE WIGZELL KNOCKER, of Bushy Ruff, Dover, in the County of Kent, Gentleman, for an invention for—"Improvements in motive-power by means of water and air." *Letters Patent sealed.*

HARTLEY. 1st May 1855.

975. WILLIAM HARTLEY, of Bury, in the County of Lancaster, Engineer, for an invention for—"Improvements in safety valves and in apparatus connected therewith, applicable also to regulating the flow of steam for other purposes."—*Letters Patent sealed.*

BOYD. 1st May 1855.

976. JAMES EDWARD BOYD, of Hither Green, Lewisham, in the County of Kent, Gentleman, for an invention for—"A ship's course indicator or exhibitor, for the purpose of exhibiting to the helmsman and others in a legible manner the course which a ship is to steer, as well as for certain improvements in ships' compasses." *Letters Patent sealed.*

FISHER. 1st May 1855.

977. GEORGE FISHER, of Cardiff, in the County of Glamorgan, Engineer, for an invention for—"An improved buffer for railway carriages."—*Provisional protection only.*

WRIGHT. 1st May 1855.

978. LEMUEL WELLMAN WRIGHT, of Birmingham, in the County of Warwick, Engineer, for an invention for—"Certain improvements in locks." *Stopped at fiat.*

BANKS. HAMPSON. BANKS. 1st May 1855.

979. WILLIAM BANKS, Mechanic, HENRY HAMPSON, Bleacher, and JOHN BANKS, Boiler maker, all of Bolton-le-Moors, in the County of Lancaster, for an invention for—"Improvements in machinery or apparatus for bleaching yarns or thread either in the cop or hank." *Letters Patent sealed.*

ADCOCK. 1st May 1855.

980. ROBERT ADCOCK, of Wolverhampton, in the County of Stafford, Engineer, for an invention for—"Improvements in the purifying processes of alcoholic liquids."—*A communication.* *Letters Patent sealed.*

HEMSLEY. 1st May 1855.

981. WILLIAM HEMSLEY, of Melbourne, near Derby, for an invention for—"Improvements in cutting warp fabrics." *Provisional protection only.*

LILLIE. 2nd May 1855.

982. JOHN SCOTT LILLIE, Companion of the Most Honourable Order of the Bath, of No. 11, South Street, Finsbury, in the County of Middlesex, for an invention for—"Improvements in tents or other moveable habitations." *Letters Patent sealed.*

LAMBERT. 2nd May 1855.

983. THOMAS LAMBERT, of Harrington Square, in the County of Middlesex, Piano-forte manufacturer, for an invention for—"Improvements in piano-fortes." *Letters Patent sealed.*

HARROLD. 2nd May 1855.

984. FREDERICK WILLIAM HARROLD, of Birmingham, in the County of Warwick, Merchant, for an invention for—"An improvement or improvements in the manufacture of the frames of slates used for writing on."—*A communication.* *Letters Patent sealed.*

CAMPAIN. 2nd May 1855.

985. SAMUEL WILLIAM CAMPAIN, of Deeping Fens, in the County of Lincoln, Farmer, for an invention for—"Improved machinery for filling corn and other sacks." *Letters Patent sealed.*

LEE. GILBERT. 2nd May 1855.

986. HENRY LEE, the younger, of Lambeth, in the County of Surrey, Contractor, and JOHN GILBERT, of Hackney Road, in the County of Middlesex, Engineer, for an invention for—"Certain machinery for mixing the substances used in the formation of concrete and other like substances." *Letters Patent sealed.*

BRIDSON. 2nd May 1855.

987. THOMAS RIDGWAY BRIDSON, of Bolton-le-Moors, in the County of Lancaster, Bleacher, for an invention for—"Improvements in preparing, beetling, or finishing textile fabrics." *Letters Patent sealed; no specification filed.*

MELLIER. 2nd May 1855.

988. MARIE AMÉDIE CHARLES MELLIER, of 47, Rue de Seine, St. Germain, Paris, for an invention for—"An improvement in the manufacture of paper." *Letters Patent sealed.*

BASFORD. 3rd May 1855.

989. WILLIAM BASFORD, of Penclawdd, Glamorganshire, Engineer, for an invention for—"Improvements in purifying coal gas, and for obtaining a residuum therefrom which may be used as a pigment or colour, or for other useful purposes." *Letters Patent sealed; no specification filed.*

BURGESS. 3rd May 1855.

990. JOHN BURGESS, Junior, of Birmingham, in the County of Warwick, Manufacturer, for an invention for—"A new or improved comb."—*Provisional protection only.*

ROWETT. 3rd May 1855.

991. WILLIAM ROWETT, of Liverpool, in the County of Lancaster, Merchant, for an invention for—"Improvements in fitting, handing, and reefing vessels' sails." *Letters Patent sealed.*

PLATT. TAYLOR. 3rd May 1855.

992. JOHN PLATT, of Oldham, in the County of Lancaster, Mechanical Engineer, and JAMES TAYLOR, of Hollinwood, near Oldham, Overlooker, for an invention for—"Improvements in looms for weaving." *Letters Patent sealed.*

HORTON. 4th May 1855.

993. THOMAS HORTON, of Birmingham, in the County of Warwick, Manufacturer, for an invention for—"An improvement in the manufacture of charcoal and pyroligneous acid." *Provisional protection only.*

FLETCHER. 4th May 1855.

994. FIELDING FLETCHER, of Birmingham, in the County of Warwick, Manufacturer of Water-closets and general Plumbers' work, for an invention for—"Certain improvements in water-closets." *Letters Patent sealed.*

MARKS. 4th May 1855.

995. WILLIAM HENRY MARKS, of the City of London, Gentleman, for an invention for—"Signalling the approach of vessels at sea." *Stopped at fiat.*

THIERS. 4th May 1855.

996. RODOLPHE THIERS, of Lyons, Empire of France, and of 32, Essex Street, Strand, London, for an invention for—"A machine for manufacturing stretchers of umbrellas and parasols." *Letters Patent sealed.*

DE FRONTIN. 4th May 1855.

997. JEAN PECHGRIS DE FRONTIN, of Agen, Empire of France, and of 32, Essex Street, Strand, London, for an invention for—"The use of a new material in the manufacture of paper and pasteboard." *Letters Patent sealed.*

LACASSAGNE. THIERS. 4th May 1855.

998. JOSEPH LACASSAGNE, and RODOLPHE THIERS, both of Lyons, in the Empire of France, and of 32, Essex Street, Strand, London, for an invention for—"An electro-metric regulator for electric telegraphing, lighting, and electro-motive purposes." *Letters Patent sealed.*

HAMILTON. 4th May 1855.

999. JOHN HAMILTON, Junior, of James Street, Liverpool, for an invention for—"Improvements in the construction of iron girders." *Letters Patent sealed.*

DALTON. 4th May 1855.

1000. DANIEL DALTON, of Chester, Ironmaster, for an invention for—"Improvements in furnaces for the smelting iron ore and iron stone and other stones and ores." *Letters Patent sealed.*

TROTMAN. 4th May 1855.

1001. JOHN TROTMAN, of 42, Cornhill, for an invention for—"Improvements in the manufacture of screw and other submerged propellers."—*Provisional protection only.*

MIDGLEY. COLLIER. 5th May 1855.

1002. ROBERT MIDGLEY, of Salterlee Mill, in the parish of Halifax, and County of York, and GEORGE COLLIER, of Halifax, in the said County, for an invention for—"Improvements in preparing yarns for weaving and other purposes." *Letters Patent sealed.*

BEAUMONT. 5th May 1855.

1003. JOSEPH BEAUMONT, of Elland, in the parish of Halifax, and County of York, Miller, for an invention for—"Improvements in treating wheat meal obtained in the manufacture of flour." *Letters Patent sealed.*

BRANDON. 5th May 1855.

1004. ALEXANDER BRANDON, of Paris, in the Empire of France, Gentleman, for an invention for—"Improvements in heating and warming apparatus." *Letters Patent sealed.*

DICKSON. 5th May 1855.

1005. JAMES HILL DICKSON, of Rotherhithe, in the County of Surrey, Flax manufacturer and Flax machinist, for an invention for—"Improvements in machinery for scutching and heckling flax, hemp, and other vegetable fibres." *Stopped at fiat.*

BUTCHER. NEWEY. 5th May 1855.

1006. MATTHEW BUTCHER, of Birmingham, in the County of Warwick, Manufacturer, and THOMAS HENRY NEWEY, of Birmingham aforesaid, Machinist, for an invention for—"Improvements in forge hammers." *Letters Patent sealed.*

ROBERTS. 5th May 1855.

1007. SAMUEL ROBERTS, of Hull, Smith, for an invention for—"Improvements in steam-engines." *Letters Patent sealed.*

PECOUL. 5th May 1855.

1008. HENRI GUSTAVE ADRIEN PECOUL, Civil Engineer, of No. 39, Rue l'Echiquier, Paris, in the Empire of France, and 4, South Street, Finsbury, Lond[on], for an invention for—"A new mode of generating power in steam-engines."
Letters Patent sealed.

BROADBENT. FARRON. GRUNDY. 7th May 1855.

1009. ROBERT BROADBENT, of Staleybridge, in the County of Chester, Mach[ine] maker, and SQUIRE FARRON, and BENJAMIN GRUNDY, both of Ashton, in the County of Lancaster, Engineers, for an invention for—"Certain improvements in steam-engines." *Letters Patent sealed.*

PEARSON. 7th May 1855.

1010. JAMES PEARSON, of Pyle House, Totterdown, in the parish of Bedminster near Bristol, in the County of Somerset, Civil Engineer, for an invention for—"Improvements in the method of fastening tires on wheels." *Letters Patent sealed.*

DE BALESTRINO. 7th May 1855.

1011. HENRI MARQUIS DE BALESTRINO, of Genoa, for an invention for—"Improvements in obtaining motive-power by the aid of explosive gases."—*A communication.* *Letters Patent sealed; no specification filed.*

FOXWELL. 7th May 1855.

1012. DANIEL FOXWELL, of the City of Manchester, in the County of Lancaster, Card manufacturer, for an invention for—"Improvements in machinery or apparatus for making wire cards, and in the manufacture thereof." *Letters Patent sealed.*

PRICE. 7th May 1855.

1013. ENOCH PRICE, of Bute Docks, Cardiff, for an invention for—"Improvements in daylight reflectors." *Provisional protection only.*

TYZACK. 7th May 1855.

1014. EBENEZER TYZACK, of Abbey Dale Works, Sheffield, for an invention for—"An improvement in scythes." *Letters Patent sealed.*

CLARK. 7th May 1855.

1015. ROBERT CLARK, of 420, Gallowgate, Glasgow, for an invention for—"Improvements in obtaining elastic finish to piece goods." *Provisional protection only.*

HANDS. 7th May 1855.

1016. JOHNSON HANDS, of Epsom, in the County of Surrey, for an invention for—"Improvements in boiler and other furnaces and flues." *Letters Patent sealed.*

BAZLEY. 7th May 1855.

1017. THOMAS BAZLEY, of the City of Manchester, in the County of Lancaster, Cotton spinner, for an invention for—"Improvements in the construction and arrangement of creels used in machines for winding, reeling, and doubling fibrous yarns or threads." *Provisional protection only.*

JOHNSON. 7th May 1855.

1018. JOHN HENRY JOHNSON, of 47, Lincoln's Inn Fields, in the County of Middlesex, and of Glasgow, North Britain, Gentleman, for an invention for—"Improvements in the manufacture of paper and cardboard."—*A communication from Francis Joseph Bérendorf, of Paris, in the Empire of France, Mechanician.*
Provisional protection only.

JOHNSON. 7th May 1855.

1019. JOHN HENRY JOHNSON, of 47, Lincoln's Inn Fields, in the County of Middlesex, and of Glasgow, North Britain, Gentleman, for an invention for—"Improvements in hair and other pins used as dress or ornament fastenings."—*A communication from Eugene Bourdon, of Paris, in the Empire of France, Mechanical Engineer.*
Letters Patent sealed.

JOHNSON. 7th May 1855.

1020. JOHN HENRY JOHNSON, of 47, Lincoln's Inn Fields, in the County of Middlesex, and of Glasgow, North Britain, Gentleman, for an invention for—"Improvements in the consumption or prevention of smoke."—*A communication from Etienne Bourgeois, of Rheims, in the Empire of France, Card manufacturer.*
Provisional protection only.

JOHNSON. 7th May 1855.

1021. JOHN HENRY JOHNSON, of 47, Lincoln's Inn Fields, in the County of Middlesex, and of Glasgow, North Britain, Gentleman, for an invention for—"Improvements in cocks and valves."—*A communication from Nicholas Laforest, and François Eugene Boudeville, of Rheims, in the Empire of France, Brass founders.*
Provisional protection only.

LEWIS. 7th May 1855.

1022. JAMES LEWIS, of Holborn, in the City of London, Manufacturer of refined soaps, for an invention for—"An improved soap." *Letters Patent sealed.*

WILTON. 8th May 1855.

1023. WILLIAM BURTT WILTON, of Lowestoft, in the County of Suffolk, Engineer, for an invention for—"Improvements in furnaces for steam-engines."
Letters Patent sealed.

MINIÉ.
8th May 1855.

1024. CHARLES CLAUDE ETIENNE MINIÉ, of Paris, in the Empire of France, and of 32, Essex Street, Strand, London, for an invention for—"Improvements in muskets or portable fire-arms." *Letters Patent sealed.*

HUGHES.
8th May 1855.

1025. JOSEPH HUGHES, of White Hall Mills, Chapel-en-le-Frith, in the County of Derby, Paper manufacturer, for an invention for—"Improvements in the manufacture of paper." *Letters Patent sealed.*

FOXWELL.
8th May 1855.

1026. DANIEL FOXWELL, of the City of Manchester, in the County of Lancaster, Card manufacturer, for an invention for—"Improvements in sewing-machines." *Letters Patent sealed.*

LINGARD.
8th May 1855.

1027. THOMAS TAYLOR LINGARD, of Manchester, in the County of Lancaster, Engineer, for an invention for—"Certain improvements in presses, which improvements are also applicable to raising heavy bodies." *Letters Patent sealed.*

NEEDHAM.
8th May 1855.

1028. RICHARD NEEDHAM, of Hollinwood, in the County of Lancaster, Engineer, for an invention for—"An improved apparatus applicable to steam-boilers, for the purpose of economizing fuel and also assisting in the generation of steam." *Provisional protection only.*

JOHNSON.
8th May 1855.

1029. JOHN HENRY JOHNSON, of 47, Lincoln's Inn Fields, in the County of Middlesex, and of Glasgow, North Britain, Gentleman, for an invention for—"Improvements in machinery or apparatus for the manufacture of paper tubes to be employed in connection with spinning machinery."—*A communication from Jacques Motsch, of Cernay, in the Empire of France, Lithographer.* *Letters Patent sealed.*

WILLIAMS.
8th May 1855.

1030. JOHN ALLIN WILLIAMS, of Baydon, in the County of Wilts, Farmer, for an invention for—"Improvements in machinery or apparatus for driving or actuating ploughs and other implements employed in working and cultivating land." *Letters Patent sealed.*

BOWRON.
8th May 1855.

1031. JAMES BOWRON, of the Tyne and Tees Glass Works, South Shields, for an invention for—"An improvement in the manufacture of glass tiles." *Letters Patent sealed.*

HALLEWELL.
8th May 1855.

1032. BENJAMIN HALLEWELL, of Leeds, in the County of York, Wine merchant, for an invention for—"Improvements in drying grain which has not been subjected to the process of malting." *Stopped at fiat.*

NEWTON.
8th May 1855.

1033. ALFRED VINCENT NEWTON, of the Office for Patents, 66, Chancery Lane, in the County of Middlesex, Mechanical Draughtsman, for an invention for—"An improved construction of air-engine."—*A communication.* *Letters Patent sealed.*

IMBS.
8th May 1855.

1034. JULES JOSEPH IMBS, Merchant, of Brumath, Town of the French Empire, for an invention for—"Certain improvements in manufacturing cartridges or cases for containing charges for fire-arms."—*A communication.* *Letters Patent sealed.*

WILLIAMS.
FULLER.
8th May 1855.

1035. THOMAS WILLIAMS, of 14, Red Lion Street, Clerkenwell, in the County of Middlesex, Tool manufacturer, and JOHN HOBSON FULLER, of New Brentford, in the County of Middlesex aforesaid, Gentleman, for an invention for—"Improvements in wrenches, pliers, and spanners." *Letters Patent sealed.*

BOWLEY.
9th May 1855.

1036. ROBERT KANZOW BOWLEY, of Charing Cross, in the County of Middlesex, Boot maker, for an invention for—"Improvements in boots and shoes and other coverings for the human foot." *Letters Patent sealed.*

GEDGE.
9th May 1855.

1037. JOHN GEDGE, of No. 4, Wellington Street South, Strand, in the County of Middlesex, Patent agent, for an invention for—"An apparatus for cleansing rooms or other spaces."—*A communication from J. N. Truchelut, of Bésançon, in the Empire of France.* *Provisional protection only.*

GEDGE.
9th May 1855.

1038. JOHN GEDGE, of No. 4, Wellington Street South, Strand, in the County of Middlesex, Patent agent, for an invention for—"Improvements in the manufacture of woven or textile fabrics."—*A communication from J. B. N. Coupé, of Saint Quentin, in the Empire of France.* *Provisional protection only.*

GEDGE. 9th May 1855.

1039. JOHN GEDGE, of No. 4, Wellington Street South, Strand, in the County of Middlesex, Patent agent, for an invention for—"Improvements in cases for spectacles and similar articles."—*A communication from J. B. Sécrétant, of Lavaux, near Saint Claude, in the Empire of France.* *Provisional protection only.*

COCKEY. COCKEY. COCKEY. 9th May 1855.

1040. EDWARD COCKEY, HENRY COCKEY, and FRANCIS CHRISTOPHER COCKEY, of the firm of Edward Cockey and Sons, of the Frome Iron foundry, in the County of Somerset, Engineers, for an invention for—"Improvements in clod crushers and land rollers." *Provisional protection only.*

WORRALL. 9th May 1855.

1041. JOHN MAYO WORRALL, of Salford, in the County of Lancaster, Dyer and Finisher, for an invention for—"Certain improvements in machinery or apparatus for cutting piled goods or fabrics." *Letters Patent sealed.*

WORRALL. 9th May 1855.

1042. JOHN MAYO WORRALL, of Salford, in the County of Lancaster, Dyer and Finisher, for an invention for—"Certain improvements in machinery or apparatus for cutting piled goods or fabrics." *Letters Patent sealed.*

MARKINDALE. 9th May 1855.

1043. RICHARD SHIERS MARKINDALE, of Salford, in the County of Lancaster, Worsted spinner, for an invention for—"An improved method of removing wool from sheepskins and other peltry." *Letters Patent sealed.*

MORRISON. 9th May 1855.

1044. DUNCAN MORRISON, of Bordesley Works, Birmingham, in the County of Warwick, for an invention for—"Improvements in the manufacture of metallic bedsteads, sofas, and other articles to sit or recline on." *Letters Patent sealed.*

TAYLOR. 9th May 1855.

1045. GEORGE TAYLOR, of Liverpool, in the County of Lancaster, Merchant, (of the firm of Jacot Taylor and Tipper, 22, Water Street) for an invention for—"Improvements in steam-engine governors."—*A communication.* *Letters Patent sealed.*

LISTER. 9th May 1855.

1046. SAMUEL CUNLIFFE LISTER, of Bradford, in the County of York, Manufacturer, for an invention for—"Improvements in treating old ropes, also old canvas and gunny bags, and similar materials, part of which improvements are also applicable to hemp, flax, rhea, and other similar fibre, to render parts of the fibres suitable to be spun." *Letters Patent sealed.*

WHIPPLE. 9th May 1855.

1047. CULLEN WHIPPLE, of the United States of America, for an invention for—"Preparing and combing wool." *Letters Patent sealed; no specification filed.*

GRAINICHER. 9th May 1855.

1048. SAMUEL GRAINICHER, of Zofingen, in Switzerland, for an invention for—"Certain improvements in the construction of pumps, parts of which improvements are also applicable to steam-engines."—*A communication from Henry Tongue, in Natchez, Mississippi.* *Letters Patent sealed.*

MERTENS. 10th May 1855.

1049. CHARLES MERTENS, of Gheel, in the Kingdom of Belgium, and of 32, Essex Street, Strand, London, for an invention for—"Improvements in breaking and scutching flax, hemp and other fibrous matters, and in the machinery employed therein." *Letters Patent sealed.*

LEWIS. 10th May 1855.

1050. JOHN WILLIAM LEWIS, of 52, Granby Road, Manchester, Manufacturer of Lightning Conductors, for an invention for—"Improvements in lightning conductors." *Provisional protection only.*

FORBUSH. 10th May 1855.

1051. EDWIN A. FORBUSH, of Ashland, in the County of Middlesex, and State of Massachusetts, United States of America, for an invention for—"An improved machine for sewing leather, cloth &c." *Letters Patent sealed.*

SCOTT. POWELL. 10th May 1855.

1052. WILLIAM SCOTT, of Birmingham, in the County of Warwick, Gun maker, and ALFRED POWELL, of the same place, Engineer, for an invention for—"Improvements in apparatus or machinery to be employed for the purpose of rifling and drawboring gun barrels and ordnance." *Provisional protection only.*

NEWTON. 10th May 1855.

1053. ALFRED VINCENT NEWTON, of the Office for Patents, 66, Chancery Lane, in the County of Middlesex, Mechanical Draughtsman, for an invention for—"An improved mode of preparing colours for printing and staining fabrics."—*A communication.* *Letters Patent sealed.*

ALLEN.
10th May 1855.

1054. MATTHEW ALLEN, of Worship Street, in the County of Middlesex, Builder, for an invention for—"An improved valve particularly applicable for regulating the supply of air to furnaces and fire-places." *Letters Patent sealed.*

EASTWOOD.
10th May 1855.

1055. EDWARD EASTWOOD, of Long Eaton, in the County of Derby, Engineer, for an invention for—"Improvements in certain parts of railway carriages." *Provisional protection only.*

NORTON.
10th May 1855.

1056. FREDERICK WILLIAM NORTON, of Edinburgh, in the County of Mid-Lothian, North Britain, Manufacturer, for an invention for—"Improvements in the manufacture or production of figured pile fabrics." *Letters Patent sealed.*

HARRIS.
SUMMERSON.
10th May 1855.

1057. JOHN HARRIS, of Woodside, near Darlington, Civil Engineer, and THOMAS SUMMERSON, of West Auckland, near Darlington aforesaid, Iron founder, for an invention for—"An improvement in the manufacture of iron railway wheels." *Letters Patent sealed.*

HUNT.
10th May 1855.

1058. CHARLES JARED HUNT, of the Willows, Mitcham, in the County of Surrey, for an invention for—"Improvements in tug and other hooks."—*Letters Patent sealed.*

HALLAM.
ELCE.
11th May 1855.

1059. JOSEPH HALLAM, of Sheffield, in the County of York, Needle manufacturer, and JOHN ELCE, of the City of Manchester, Machinist, for an invention for—"Improvements in the construction of rowels or toothed cylinders for self acting temples and other purposes." *Letters Patent sealed.*

HUMPHRIES.
HUMPHRIES.
11th May 1855.

1060. EDWARD HUMPHRIES, of Pershore, in the County of Worcester, Machinist, and THOMAS HUMPHRIES, of the same place, Machinist, for an invention for—"Improvements in machine riddles for separating straw from grain and for other similar purposes." *Letters Patent sealed.*

BROUGH.
11th May 1855.

1061. NEHEMIAH BROUGH, of Birmingham, in the County of Warwick, Machinist, for an invention for—"Improvements in slide buckles."—*Complete specification.* *Stopped at first reference.*

JOHNSON.
11th May 1855.

1062. JOHN HENRY JOHNSON, of 47, Lincoln's Inn Fields, in the County of Middlesex, and of Glasgow, North Britain, Gentleman, for an invention for—"Improvements in the manufacture of sulphuric acid."—*A communication from Jean François Persoz, of Paris, in the Empire of France, Chemist, Professor in the Conservatoire des Arts et Metiers.* *Letters Patent sealed.*

HENDERSON.
11th May 1855.

1063. CONSTANTINE HENDERSON, of Tufnell Park, in the County of Middlesex, Gentleman, for an invention for—"Improvements in the construction and arrangement of locks." *Letters Patent sealed.*

PASCALL.
FRY.
11th May 1855.

1064. JOSEPH PASCALL, of Chislehurst, in the County of Kent, Manufacturer, and GEORGE FRY, of Lee, in the same County, Gardener, for an invention for—"Improvements in blanching, forcing, and propagating garden pots."—*Letters Patent sealed.*

STEELE.
11th May 1855.

1065. JAMES STEELE, of Greenock, in the County of Renfrew, North Britain, Sugar refiner, for an invention for—"Improvements in effecting the drainage of moulded sugar." *Letters Patent sealed.*

CADDICK.
11th May 1855.

1066. DAVID CADDICK, of the Ebbw Vale Iron Works, in the County of Monmouth, Mason, for an invention for—"Improvements in puddling furnaces."—*Complete specification.* *Letters Patent sealed.*

WARNER.
12th May 1855.

1067. ARTHUR WARNER, of 11, New Broad Street, in the City of London, for an invention for—"Improvements in combining sheets of copper or its alloys, with lead, tin, zinc, nickel, gold, silver, platinum, or alloys containing these metals or some of them, with or without the addition of copper, antimony, bismuth, arsenic, manganese, or mercury."—*Complete specification.* *Stopped at fiat.*

GUILD.
12th May 1855.

1068. ADAM GUILD, of Manchester, in the County of Lancaster, Engineer, for an invention for—"Improvements in the process of bowking."—*Complete specification.* *Letters Patent sealed.*

SANDERS.
12th May 1855.

1069. FREDERICK GEORGE SANDERS, of the Patent Architectural Pottery, Poole, in the County of Dorset, for an invention for—"Improvements in brick, pipe, and tile machines." *Letters Patent sealed.*

ROBINSON. 12th May 1855. 1070. GEORGE ROBINSON, of the City of Manchester, in the County of Lancaster, Machine Broker, for an invention for—"An improved invalid's bed." *Letters Patent sealed.*

HERDMAN. 12th May 1855. 1071. JOHN HERDMAN, of Belfast, in the County of Antrim, in Ireland, Engineer, for an invention for—"Improvements in the manufacture of wrought iron plates and bars for ship building, and other purposes for which strength and lightness are required." *Letters Patent sealed.*

ADAMS. 12th May 1855. 1072. WILLIAM BRIDGES ADAMS, of No. 1, Adam Street, Adelphi, in the County of Middlesex, Engineer, for an invention for—"Improvements in the construction and propulsion of vessels for navigation moved by internal power."—*Letters Patent sealed.*

BECKETT. 12th May 1855. 1073. JAMES BECKETT, of Preston, in the County of Lancaster, Overlooker, for an invention for—"Improvements in machinery for spinning cotton and other fibrous substances, more particularly applicable to the machines generally known by the name of Smith's self acting mules." *Provisional protection only.*

WHYATT. 12th May 1855. 1074. GEORGE WHYATT, of Openshaw, in the County of Lancaster, Dyer, for an invention for—"Certain improvements in machinery or apparatus for cutting pile goods or fabrics." *Letters Patent sealed.*

LINSLY. 12th May 1855. 1075. JOHN HENRY LINSEY, of Coleman Street, in the City of London, Accountant book maker, for an invention for—"Certain improvements in account books and other large books." *Provisional protection only.*

FONTAINEMOREAU. 12th May 1855. 1076. PETER ARMAND LE COMTE DE FONTAINEMOREAU, of No. 4, South Street, Finsbury, London, and 59, Rue de l'Echiquier, Paris, in the Empire of France, Patent agent, for an invention for—"Improvements in machinery for boring or perforating stone and other materials."—*A communication.* *Letters Patent sealed.*

PIETON. 12th May 1855. 1077. FLORENT JOSEPH PIETON, Manufacturer, of Wignetries, Town in the French Empire, for an invention for—"Certain improvements in knitting-machinery." *Provisional protection only.*

DRAY. 12th May 1855. 1078. WILLIAM DRAY, of Swan Lane, in the City of London, Agricultural Implement maker, for an invention for—"Improvements in the manufacture of frames for all kinds of structures, together with the means of fastening the same when necessary, part of which is applicable to the manufacture of screws and bolts."—*Letters Patent sealed.*

THEROULDE. 12th May 1855. 1079. FRANÇOIS ALPHONSE THEROULDE, of 15, Place Vendome, Paris, Ship owner, for an invention for—"Improvements in preserving animal substances."—*A communication.* *Letters Patent sealed.*

RICKETT. 12th May 1855. 1080. THOMAS RICKETT, of Watling Works, Stony Stratford, for an invention for—"Improvements in the construction of pressure gauges." *Stopped at fiat.*

DUPRE. 12th May 1855. 1081. JOHN DUPRE, of Plymouth, for an invention for—"Improvements in the construction of ovens."—*A communication.* *Letters Patent sealed.*

HIGGINS. 14th May 1855. 1082. JOHN HIGGINS, of Oldham, in the County of Lancaster, Engineer, for an invention for—"Improvements in steam-boilers and apparatus connected therewith." *Stopped at fiat.*

ROBERTSON. 14th May 1855. 1083. WILLIAM ROBERTSON, of Edinburgh, Scotland, Iron founder, for an invention for—"Improvements in the treatment of fuel and its use for heating purposes." *Letters Patent sealed.*

PETTIGRUE. 14th May 1855. 1084. JAMES PETTIGRUE, of Drumcree, in the County of Westmeath, Gentleman, and of 138, Dorset Street, in the City of Dublin, for an invention for—"Improvements in propelling vessels." *Letters Patent sealed.*

M'CONNEL. 14th May 1855. 1085. ROBERT M'CONNEL, of Glasgow, in the County of Lanark, North Britain, Ironfounder, for an invention for—"Improvements in beams or girders for buildings or structural purposes." *Letters Patent sealed.*

MORRISON. 14th May 1855. 1086. ROBERT MORRISON, of the Town and County of Newcastle-upon-Tyne, Engineer, for an invention for—"Improvements in steam-engines." *Letters Patent sealed.*

BUCHANAN. 14th May 1855.

1087. JAMES BUCHANAN, of Glasgow, in the County of Lanark, North Britain, Gentleman, for an invention for—"Improvements in the manufacture of heddles or healds for weaving."—*Partly a communication.* *Letters Patent sealed.*

EASTWOOD. WHITLEY. 14th May 1855.

1088. THOMAS CHARLES EASTWOOD, and THOMAS WHITLEY, of Bradford, in the County of York, Overlookers, for an invention for—"Improvements in preparing and combing wool and other fibrous substances." *Letters Patent sealed.*

MASON. THORNTON. KABERRY. 14th May 1855.

1089. JOHN MASON, Machinist, SAMUEL THORNTON, Machinist, and LEONARD KABERRY, Manager, all of Rochdale, in the County of Lancaster, for an invention for—"Improvements in machinery or apparatus for preparing cotton and other fibrous substances for spinning yarns or threads, and for finishing or polishing such yarns or threads." *Letters Patent sealed.*

ROBERTSON. 14th May 1855.

1090. ALEXANDER ROBERTSON, of Sheffield, in the County of York, Stove grate manufacturer, for an invention for—"Improvements in the construction of stoves and fire grates." *Letters Patent sealed.*

NEWALL. 14th May 1855.

1091. ROBERT STIRLING NEWALL, of Gateshead, for an invention for—"Improvements in apparatus employed in laying down submarine electric telegraph wires." *Letters Patent sealed.*

GARRATT. 14th May 1855.

1092. ALFRED CHARLES GARRATT, of the State of Massachusetts, of the United States of America, for an invention for—"Facilitating the work of lubricating the axles or bearings of carriage wheels." *Letters Patent sealed.*

HILL. 14th May 1855.

1093. LEVI LEWIS HILL, of Westhill, in the County of Greene, and State of New York, in the United States of America, for an invention for—"Improvements in silvering glass." *Letters Patent sealed.*

LACKMANN. 14th May 1855.

1094. JOHN LACKMANN, of Hamburgh, for an invention for—"An improvement in the manufacture of sheet iron."—*A communication.* *Letters Patent sealed; no specification filed.*

BOUSFIELD. 14th May 1855.

1095. GEORGE TOMLINSON BOUSFIELD, of 8, Sussex Place, Loughborough Road, Brixton, in the County of Surrey, for an invention for—"An improvement in burning hydro-carbons in lamps."—*A communication.* *Letters Patent sealed.*

CHRISTIE. 15th May 1855.

1096. PETER CHRISTIE, of Greenock, Scotland, for an invention for—"An improved tent or hut for soldiers in the field, emigrants, tourists, and other persons requiring a portable dwelling." *Letters Patent sealed.*

JOBSON. JOBSON. 15th May 1855.

1097. ROBERT JOBSON, of Holly Hall Works, near Dudley, in the County of Stafford, Iron founder, and JOHN JOBSON, of Litchurch Works, near Derby, in the County of Derby, Iron founder, for an invention for—"Improvements in the manufacture of moulds for casting metals." *Letters Patent sealed.*

FAWCETT. LAMB. FAWCETT. 15th May 1855.

1098. WILLIAM FAWCETT, JOHN LAMB, and FRANCIS BEST FAWCETT, all of Kidderminster, in the County of Worcester, Carpet manufacturers, for an invention for—"Improvements in the manufacture of carpets and other similar fabrics, and in machinery and apparatus to be used therein." *Letters Patent sealed.*

BOUSFIELD. 15th May 1855.

1099. GEORGE TOMLINSON BOUSFIELD, of 8, Sussex Place, Loughborough Road, Brixton, in the County of Surrey, for an invention for—"Improvements in the manufacture of wrought nails."—*A communication.* *Letters Patent sealed.*

SAXON. 16th May 1855.

1100. GEORGE SAXON, of Openshaw, near the City of Manchester, Engineer, for an invention for—"Improvements in the construction of safety plugs for steam-boilers, and in valves for steam-engines." *Provisional protection only.*

LATHAM. 16th May 1855.

1101. WILFRID LATHAM, of Liverpool, in the County of Lancaster, Merchant, for an invention for—"Improvements in cutting the terry or pile of certain textile fabrics used for saddle covers." *Letters Patent sealed.*

RICHARDSON. 16th May 1855.

1102. THOMAS RICHARDSON, of Leeds, in the County of York, Drysalter and Manufacturing Chemist, for an invention for—"An improvement in dyeing cloth." *Letters Patent sealed.*

DE NORMANDY. 16th May 1855.

1103. ALPHONSE RENÉ LE MIRE DE NORMANDY, Analytical Chemist, of 67, Judd Street, Brunswick Square, in the County of Middlesex, for an invention for—"Certain improvements in converting fatty and oily substances into fatty and oily acids, and into soap." *Letters Patent sealed.*

PLENTY. PAIN. 16th May 1855.

1104. EDWARD PELLEW PLENTY, and WILLIAM PAIN, of Newbury, in the County of Berkshire, Agricultural implement manufacturers, and copartners, for an invention for—"An improvement in ploughs." *Letters Patent sealed.*

SIEMENS. 16th May 1855.

1105. CHARLES WILLIAM SIEMENS, of John Street, Adelphi, in the County of Middlesex, Civil Engineer, for an invention for—"Improvements in cooling and in freezing water and other bodies." *Letters Patent sealed.*

PETERS. 16th May 1855.

1106. RICHARD PETERS, of 89, Union Street, Borough, in the County of Surrey, Engineer, for an invention for—"Improvements in steam-engines."—*Complete specification.* *Letters Patent sealed.*

JAMIESON. 16th May 1855.

1107. ROBERT JAMIESON, of Ashton-under-Lyne, in the County of Lancaster, Machinist, for an invention for—"An improved machine or improvements in machinery or apparatus for forming or forging the burs or nuts for screw bolts, applicable also to forming, forging, or completing blanks for bolts, and pieces of metal for other purposes." *Provisional protection only.*

VEZEY. VEZEY. 16th May 1855.

1108. ROBERT VEZEY, and EDMUND VEZEY, both of Bath, in the County of Somerset, Coach Builders, for an invention for—"Certain improvements in carriage steps." *Letters Patent sealed.*

PORTER. 16th May 1855.

1109. JOHN HENDERSON PORTER, of Birmingham, in the County of Warwick, Engineer, for an invention for—"Improvements in coupling-blocks for trusses employed in roofs and other structures generally." *Provisional protection only.*

KNOWLES. BELLHOUSE. 16th May 1855.

1110. JOHN KNOWLES, of Manchester, in the County of Lancaster, Marble merchant, and EDWARD TAYLOR BELLHOUSE, of the same place, Engineer, for an invention for—"Improvements in the manufacture or working of marble, stone, glass, and similar materials." *Letters Patent sealed.*

MURDOCH. 16th May 1855.

1111. ROBERT MURDOCH, of Cran Hill, Glasgow, in the County of Lanark, North Britain, Surveyor, for an invention for—"Improvements in agricultural apparatus for sowing seeds and for depositing manure." *Stopped at first.*

RYE. 16th May 1855.

1112. WHARTON RYE, of Miles Platting, near Manchester, in the County of Lancaster, Iron founder, for an invention for—"An improved railway wheel which may also be employed for other similar purposes." *Letters Patent sealed.*

DAWSON. 17th May 1855.

1113. THOMAS DAWSON, of King's Arms Yard, in the City of London, Engineer, for an invention for—"Improvements in cases for containing pen, ink, and stamps." *Letters Patent sealed.*

MENNET. 17th May 1855.

1114. ALEXANDRE MAXIMILIEN MENNET, Merchant, of Paris, Town of the French Empire, for an invention for—"Certain improvements in ornamenting textile and other fabrics." *Letters Patent sealed.*

BUTT. MARTIN. 17th May 1855.

1115. JEAN GUILLAUME BUTT, and JEAN ALFRED MARTIN, both of Paris, in the Empire of France, and 32, Essex Street, Strand, London, for an invention for—"A new system of rotary steam-engines." *Letters Patent sealed.*

JOHNSON. 17th May 1855.

1116. WILLIAM JOHNSON, of 47, Lincoln's Inn Fields, in the County of Middlesex, and of Glasgow, in the County of Lanark, North Britain, Civil Engineer, for an invention for—"Improvements in the manufacture, treatment, and application of oily, resinous, and gummy substances, and soaps."—*Acommunication.* *Letters Patent sealed.*

BLYTH. 17th May 1855.

1117. FREDERICK DELACOURT BLYTH, of Birmingham, in the County of Warwick, Manufacturer, for an invention for—"Improvements in the manufacture of tea-trays, picture-frames and other similar articles, from papier mâché."—*Letters Patent sealed.*

RAE.
17th May 1855.

1118. JAMES RAE, of Alpha Road, New Cross, in the County of Kent, Engineer, for an invention for—"Improvements in warming railway passenger carriages, and compartments in steam vessels." *Letters Patent sealed.*

SMITH.
17th May 1855.

1119. WILLIAM SMITH, of No. 10, Salisbury Street, Adelphi, in the County of Middlesex, for an invention for—"A new machine for cleaning cotton and other fibrous materials."—*A communication from Mons^r Edmond Neven, of Malaunay, in the Empire of France.* *Stopped at fiat.*

WARÉE.
18th May 1855.

1120. BENOIT THEODORE WARÉE, of Paris, in the Empire of France, and of 32, Essex Street, Strand, London, for an invention for—"A new or improved apparatus for sharpening pencils." *Provisional protection only.*

MINIÉ.
18th May 1855.

1121. CHARLES CLAUDE ETIENNE MINIÉ, of Paris, in the Empire of France, and of 32, Essex Street, Strand, London, for an invention for—"Improvements in breech loading fire-arms." *Letters Patent sealed.*

JEFFREYS.
18th May 1855.

1122. JULIUS JEFFREYS, of Kingston, in the County of Surrey, for an invention for—"Improvements in sun blinds or solar screens." *Stopped at fiat.*

MOREWOOD.
ROGERS.
18th May 1855.

1123. EDMUND MOREWOOD, and GEORGE ROGERS, of Enfield, in the County of Middlesex, for an invention for—"An improvement in coating wrought iron." *Letters Patent sealed.*

CUMMING.
18th May 1855.

1124. JOHN CUMMING, of Glasgow, in the County of Lanark, North Britain, Pattern designer, for an invention for—"Improvements in looms for weaving." *Provisional protection only.*

GRANVILLE.
18th May 1855.

1125. WILLIAM HENRY DEARING GRANVILLE, of Stokenchurch, in the County of Oxford, Schoolmaster, for an invention for—"Improvements in fire-arms and cartridges for the same." *Letters Patent sealed.*

STAINTON.
DAVEY.
21st May 1855.

1126. ROBERT JOHN STAINTON, and EDMUND CHARLES DAVEY, of No. 14, Holland Street, Blackfriars Road, Southwark, Iron Plate workers and Stove manufacturers, for an invention for—"Improvements in the construction of warming and other stoves for generating and radiating heat, and also for economizing combustion therein and attention thereto." *Letters Patent sealed.*

TUCKER.
21st May 1855.

1127. WALTER HENRY TUCKER, of Fleet Street, London, Lock manufacturer, for an invention for—"Improvements in locks." *Letters Patent sealed.*

EASSIE.
21st May 1855.

1128. PETER BOYD EASSIE, of the City and County of Gloucester, Civil Engineer, for an invention for—"A sectorial or radial eliptograph."—*Provisional protection only.*

WATSON.
OLIVER.
21st May 1855.

1129. HENRY HOUGH WATSON, of Little Bolton, in the County of Lancaster, Analytical Chemist, and JAMES OLIVER, of Over Hulton, in the said County, Land agent, for an invention for—"Improvements in the manufacture of fuel." *Letters Patent sealed.*

NICHOLLS.
21st May 1855.

1130. BENJAMIN NICHOLLS, of East Street, Old Kent Road, County of Surrey, for an invention for—"Improvements in the manufacture and construction of buttons." *Letters Patent sealed.*

DIDOT.
21st May 1855.

1131. PAUL FIRMIN DIDOT, Chemist, of Paris, in the French Empire, for an invention for—"An improved process of bleaching paper-pulp, textile fabrics, and other substances or matters." *Letters Patent sealed.*

STOCKER.
21st May 1855.

1132. SAMUEL STOCKER, of Brighton, in the County of Sussex, Engineer, for an invention for—"Improvements in machinery and apparatus for shaping of metals, and also in such metal goods made from sheets, plates, or tubes, and also for other parts connected therewith, and for finishing the same when left by the machine or apparatus." *Letters Patent sealed.*

MOWBRAY.
21st May 1855.

1133. FREDERICK WILLIAM MOWBRAY, of Shipley, near Leeds, in the County of York, Engineer, for an invention for—"Improvements in looms for weaving carpets and other pile fabics." *Letters Patent sealed.*

PIGGOTT.
21st May 1855.

1134. THOMAS PIGGOTT, of Birmingham, in the County of Warwick, Manufacturer, for an invention for—"An improvement or improvements in telescopic gasholders." *Letters Patent sealed.*

BENNETT. 21st May 1855.

1135. EDWARD HOLMES BENNETT, of Birmingham, in the County of Warwick, Manufacturer, for an invention for—"Improvements in roasting-jacks."—*Stopped at fee.*

CURTIS. 21st May 1855.

1136. WILLIAM JOSEPH CURTIS, of Hardinge Street, Islington, in the County of Middlesex, Engineer, for an invention for—"Improvements in aërostation or aëronautics, and the mechanism connected therewith, which improvements may be rendered subservient to purposes of navigation." *Provisional protection only.*

WHITAKER. 21st May 1855.

1137. HARRY WHITAKER, of the City of Buffalo, State of New York, in the United States of America, for an invention for—"Improvements in the propulsion of steam vessels by a direct application of a crank outside the hull to side screw propellers, such application being combined with a high pressure engine also outside the hull." *Letters Patent sealed.*

RAVENSTIN. CHATEL. 21st May 1855.

1138. LOUIS FRÉDÉRIC ISIDORE RAVENSTIN, Merchant, and CHARLES CHATEL, Designer, of Paris (Empire of France) and of 32, Essex Street, Strand, London, for an invention for—"Improvements in the manufacture of blinds, screens, reflectors, and other articles of a similar nature." *Provisional protection only.*

SILBERMANN. 21st May 1855.

1139. IGNACE JOSEPH SILBERMANN, Junior, of Paris, in the Empire of France, and of 32, Essex Street, Strand, London, for an invention for—"Improvements in printing on any kind of surfaces." *Letters Patent sealed.*

COSSUS. 21st May 1855.

1140. ANTOINE FIDELIS COSSUS, of Cagliari, in the Kingdom of Sardinia, for an invention for—"Improvements in treating oils and fatty matters."—*Letters Patent sealed.*

LONGMAID. LONGBOTTOM. 21st May 1855.

1141. WILLIAM LONGMAID, of Victoria Cottage, Stoke Newington, and JOHN LONGBOTTOM, of Leeds, for an invention for—"Improvements in heating coppers, pans, and boilers." *Letters Patent sealed.*

REY. GUIBERT. 21st May 1855.

1142. JOSEPH LOUIS REY, and ADOLPHE GUIBERT, of Marseilles, in the Kingdom of France, for an invention for—"A composition to preserve wood and iron, called a submarine and preserving coating." *Letters Patent sealed.*

SHAW. 21st May 1855.

1143. THOMAS GEORGE SHAW, of Old Broad Street, in the City of London, and County of Middlesex, for an invention for—"An improved conductor to be used in the decantation of wine or other liquids." *Provisional protection only.*

MENTHA. 21st May 1855.

1144. ALEXANDER HENRY MENTHA, of Manchester, in the County of Lancaster, Merchant, for an invention for—"Certain improvements in the manufacture of wadding and in the machinery or apparatus connected therewith." *Letters Patent sealed.*

MACNAUGHT. 21st May 1855.

1145. WILLIAM MACNAUGHT, of Manchester, in the County of Lancaster, Engineer, for an invention for—"Certain improvements in steam-boilers or generators." *Letters Patent sealed.*

MURTON. 21st May 1855.

1146. JOHN MAHON MURTON, of 3, Somers Place West, Saint Pancras, in the County of Middlesex, Actuary, for an invention for—"Improvements in sister hooks and thimbles for ships' and boats' riggings, such improvements or parts thereof being applicable also to other purposes where hooks are required." *Letters Patent sealed.*

SHANKS. 21st May 1855.

1147. JAMES SHANKS, of Arbroath, in the County of Forfar, North Britain, Machinist, for an invention for—"Improvements in mowing-machines." *Letters Patent sealed.*

JOHNSON. 21st May 1855.

1148. JOHN HENRY JOHNSON, of 47, Lincoln's Inn Fields, in the County of Middlesex, and of Glasgow, North Britain, Gentleman, for an invention for—"Improvements in signals for nautical purposes."—*A communication from Henry J. Rogers, of Baltimore, Maryland, in the United States of America.* *Letters Patent sealed.*

JOHNSON. 21st May 1855.

1149. JOHN HENRY JOHNSON, of 47, Lincoln's Inn Fields, in the County of Middlesex, and of Glasgow, North Britain, Gentleman, for an invention for—"Improvements in the process of vulcanizing and rendering hard, india-rubber and gutta-percha, and in the application of those materials when hard, to the construction of parts of machinery or apparatus employed in the preparation and manufacture of fibrous materials and textile fabrics."—*A communication.* *Letters Patent sealed.*

NEWTON. 21st May 1855. **1150.** ALFRED VINCENT NEWTON, of the Office for Patents, 66, Chancery Lane, in the County of Middlesex, Mechanical Draughtsman, for an invention for—"Improvements in the construction of watches."—*A communication.* *Letters Patent sealed.*

SCOTT. 22nd May 1855. **1151.** HENRY EMMANUEL SCOTT, of Brixton, in the County of Surrey, Civil Engineer, for an invention for—"Improvements in ships and other floating vessels." *Letters Patent sealed.*

CRUICKSHANK. 22nd May 1855. **1152.** JOHN CRUICKSHANK, of Marcassie, in the County of Elgin, North Britain, Farmer, for an invention for—"An improved construction of offensive and defensive equipment for cavalry." *Letters Patent sealed.*

COLLIER. 22nd May 1855. **1153.** GEORGE COLLIER, of Halifax, in the County of York, for an invention for—"Improvements in looms for weaving carpets and other fabrics." *Letters Patent sealed.*

HOLLAND. 22nd May 1855. **1154.** HOMER HOLLAND, of Westfield, in the County of Hampden, and State of Massachusetts, United States of America, Physician, for an invention for—"Improvements in the method of treating metalliferous sulphurets." *Letters Patent sealed.*

HOLT. SAGAR. 22nd May 1855. **1155.** THOMAS HOLT, of Blackburn, and JOHN SAGAR, of Cabin-end, near Blackburn, in the County of Lancaster, for an invention for—"Improvements in looms." *Provisional protection only.*

MORGAN. 22nd May 1855. **1156.** JOSEPH MORGAN, of Manchester, Manufacturer of plaited wicks, for an invention for—"An improvement in the manufacture of plaited or platted wicks used in the making of candles." *Letters Patent sealed.*

MEYER. 23rd May 1855. **1157.** JOHAN JACOB MEYER, of Rochdale, in the County of Lancaster, Cabinet maker, for an invention for—"Improvements in machinery or apparatus for shaping wood and other materials." *Letters Patent sealed.*

OCHS. 23rd May 1855. **1158.** LAZARE OCHS, of Saint Josse ten Noode, near Brussels, in the Kingdom of Belgium, Lace manufacturer, for an invention for—"Improvements in the manufacture of certain kinds of paper, from the refuse and cuttings of leather during the operation of tanning."—*A communication.* *Provisional protection only.*

EDEN. 23rd May 1855. **1159.** JAMES EDEN, of Lytham, in the County of Lancaster, Bleacher, for an invention for—"An improved mode of drying fabrics." *Letters Patent sealed.*

LEESHING. 23rd May 1855. **1160.** FRANCIS LEESHING, of Busby, near Glasgow, in the County of Lanark, Chemist, for an invention for—"An improved method of preparing or treating certain dye stuffs so as to obtain greater dyeing power." *Letters Patent sealed.*

DAVIS. 23rd May 1855. **1161.** DAVID L. DAVIS, of Dedham, in the County of Norfolk, and State of Massachusetts, United States of America, for an invention for—"An improved method of applying elastic bearings to railroad chairs and rails." *Letters Patent sealed.*

M°LOW. 23rd May 1855. **1162.** THOMAS M°LOW, of Staples Inn Buildings, No. 6, Middle Row, Holborn, London, for an invention for—"Certain improvements in paddle-wheels." *Stopped at fiat.*

NEWTON. 23rd May 1855. **1163.** ALFRED VINCENT NEWTON, of the Office for Patents, 66, Chancery Lane, in the County of Middlesex, for an invention for—"Certain improvements in bee-hives."—*A communication.* *Letters Patent sealed.*

SMITH. 23rd May 1855. **1164.** WILLIAM SMITH, of 10, Salisbury Street, Adelphi, in the County of Middlesex, for an invention for—"Improvements in safety apparatus for mine shafts and other hoists."—*A communication from M. Nicholas Joseph Jacquet, of Arras, in the Empire of France.* *Letters Patent sealed.*

SMITH. 23rd May 1855. **1165.** WILLIAM SMITH, of No. 10, Salisbury Street, Adelphi, in the County of Middlesex, for an invention for—"A safety apparatus for steam-boilers."—*A communication from M. Adolphe Lethwilleon Pinel, of Rouen, in the Empire of France.* *Letters Patent sealed.*

SMITH.
TAYLOR.
24th May 1855.

1166. WILLIAM SMITH, of Snow Hill, in the City of London, and NATHANIEL FORTESCUE TAYLOR, of Gloucester Terrace, Park Walk, Chelsea, Gas Engineers, for an invention for—"Improvements in meters for measuring gas and other fluids."
Letters Patent sealed.

LONGRIDGE.
24th May 1855.

1167. JAMES ATKINSON LONGRIDGE, of the Town and County of Newcastle-upon-Tyne, Engineer, for an invention for—"Improvements in the construction or the manufacture of guns and artillery, and of other vessels intended to resist great pressure."
Letters Patent sealed.

SEEGERS.
24th May 1855.

1168. AUGUSTE FRÉDÉRIC GODFRID SEEGERS, Leather printer, of Paris, in France, for an invention for—"Improvements in the manufacture of hangings of paper and of textile fabrics."
Provisional protection only.

MITCHELL.
ENTWISLE.
24th May 1855.

1169. JOHN MITCHELL, of Bury, in the County of Lancaster, Roller and Spindle maker, and JAMES ENTWISLE, of the same place, Foreman, for an invention for—"Improvements in presser flyers for roving-frames and other machines of the like nature."
Provisional protection only.

PARK.
24th May 1855.

1170. JAMES PARK, of Bury, in the County of Lancaster, Engineer, for an invention for—"Improvements in machinery for manufacturing paper pulp."
Letters Patent sealed.

HUDSON.
WILLIAMS.
24th May 1855.

1171. JOSHUA HUDSON, of Laurel Place, Queen's Road, Dalston, in the County of Middlesex, and GEORGE ROBERT WILLIAMS, of Stanley Street, Chelsea, also in the County of Middlesex, for an invention for—"Improvements in water-meters, which are applicable also to the measurement of other fluids."
Provisional protection only.

RAWLINGS.
24th May 1855.

1172. CHARLES RAWLINGS, of Sherborne, in the County of Dorset, for an invention for—"Improvements in writing-desks."
Letters Patent sealed.

MUIR.
GRAY.
24th May 1855.

1173. GEORGE WALKER MUIR, of Glasgow, in the County of Lanark, and MATTHEW GRAY, of Bonhill, in the County of Dumbarton, Scotland, Engineers, for an invention for—"Improvements in admitting and regulating the admission of air to furnaces."
Letters Patent sealed.

PUTNAM.
24th May 1855.

1174. SILAS SAFFORD PUTNAM, of the State of Massachusetts, of the United States of America, for an invention for—"A new or improved forging machine."—*Complete specification.*
Letters Patent sealed.

ROBBINS.
24th May 1855.

1175. SAMUEL EDWIN ROBBINS, of the State of Vermont, of the United States of America, for an invention for—"Certain new and useful improvements in fire-arms."—*Partly a communication from George Leonard, of the said United States. Complete specification.*
Letters Patent sealed.

CHASE.
24th May 1855.

1176. OLIVER RICE CHASE, of Boston, in the United States of America, but now of 17, Cornhill, London, for an invention for—"A machine for making confectioners' 'pipe' and for other purposes."
Provisional protection only.

VON GILGENHEIMB.
24th May 1855.

1177. THEODOR BARON VON GILGENHEIMB, of Widenau, Silesia, for an invention for—"A new machine for tilling land."—*Complete specification.*
Letters Patent sealed.

M'LOW.
24th May 1855.

1178. THOMAS M'LOW, of Staples Inn Buildings, No. 6, Middle Row, Holborn, London, for an invention for—"Certain improvements in paddle-wheels."
Stopped at fiat.

ADDENBROOKE.
24th May 1855.

1179. JOSEPH ADDENBROOKE, of Bartlett's Passage, in the City of London, Envelope maker, for an invention for—"Improvements in machinery for folding envelopes."
Letters Patent sealed.

HORROCKS.
24th May 1855.

1180. GEORGE HORROCKS, of Pilkington, in the County of Lancaster, Shuttle maker, for an invention for—"Certain improvements in shuttles."—*Letters Patent sealed.*

HASELER.
25th May 1855.

1181. EDWIN HASELER, of Wolverhampton, in the County of Stafford, Artist, for an invention for—"An improvement or improvements in frames for pictures, drawings, engravings, and other similar articles."
Letters Patent sealed.

GREENHOW. 25th May 1855.

1182. THOMAS MICHAEL GREENHOW, of the Borough of Newcastle-upon-Tyne, in the County of Northumberland, for an invention for—"Improvements in constructing and protecting the bottoms and sides of iron ships." *Provisional protection only.*

MELVILLE. 25th May 1855.

1183. ALEXANDER MELVILLE, of No. 50, Baker Street, Portman Square, in the County of Middlesex, Artist, for an invention for—"Improvements in breech loading fire-arms and in projectiles used therewith." *Letters Patent sealed.*

DE PARIENTÉ. 25th May 1855.

1184. LEON DE PARIENTÉ, of No. 123, Rue de Brabant, in the Faubourg de Schaerbeck, next Brussels, in the Kingdom of Belgium, for an invention for—"Improvements in cutting or sawing wood."—*A communication.* *Stopped at fiat.*

POULLAIN. 25th May 1855.

1185. JOSEPH HIPPOLYTE POULLAIN, of Paris, in the Empire of France, and of 32, Essex Street, Strand, London, for an invention for—"A new or improved pen holder." *Letters Patent sealed.*

ALDRIDGE. 25th May 1855.

1186. EDWARD ALDRIDGE, of Boston, in the County of Lincoln, Manager of the Boston Waterworks, for an invention for—"Improvements in meters for measuring the flow of liquids and fluids, which can also be employed for obtaining motive-power, and in taps for regulating the flow of liquids." *Letters Patent sealed.*

HENSON. 25th May 1855.

1187. HENRY HENSON HENSON, of Parliament Street, in the City of Westminster, Engineer, for an invention for—"An improvement in the manufacture of fabrics suitable for goods-wrappers and other purposes for which canvas has been or may be employed." *Letters Patent sealed.*

ALLEN. ALLEN. 25th May 1855.

1188. JOHN ALLEN, and WILLIAM ALLEN, of Wallsend, near Newcastle-on-Tyne, for an invention for—"An improvement in applying heat to alkaline solutions, and to drying and making alkaline salts." *Letters Patent sealed.*

JACCARD. 25th May 1855.

1189. AUGUSTE PAILLARD JACCARD, of Sainte Croix, Switzerland, Watchmaker, for an invention for—"An improved independent centre seconds movement for watches."—*A communication.* *Stopped at fiat.*

WAITHMAN. WAITHMAN. 26th May 1855.

1190. ROBERT WILLIAM WAITHMAN, of Bentham House, in the County of York, and JOSEPH WAITHMAN, of Manchester, in the County of Lancaster, for an invention for—"Improvements in machinery or apparatus for the manufacture of lint or similar substances." *Letters Patent sealed.*

MABERLY. 26th May 1855.

1191. FREDERICK HERBERT MABERLY, of Stowmarket, in the County of Suffolk, Clerk, for an invention for—"Improvements in fire-arms." *Letters Patent sealed.*

LÓRÁND. 26th May 1855.

1192. JOHN LEUTHNÉR LÓRÁND, of 11, William Street, Hampstead Road, in the County of Middlesex, for an invention for—"An improved railway break." *Provisional protection only.*

MATHER. 26th May 1855.

1193. THOMAS MATHER, of Preston, in the County of Lancaster, Engineer, for an invention for—"Improvements in the construction of pistons."—*Letters Patent sealed.*

MACLAREN. 26th May 1855.

1194. ROBERT MACLAREN, of Glasgow, in the County of Lanark, North Britain, Engineer, for an invention for—"Improvements in furnaces and in the consumption and prevention of smoke." *Provisional protection only.*

YOUNG. 26th May 1855.

1195. WILLIAM SIMSON YOUNG, of Leith, in the County of Midlothian, North Britain, Merchant, for an invention for—"Improvements in steam-boiler furnaces, and in the prevention of smoke therein." *Letters Patent sealed.*

ASPINALL. 26th May 1855.

1196. JOHN ASPINALL, of Fenchurch Street, in the City of London, Civil Engineer, for an invention for—"Improvements in machinery for extracting moisture from substances, and for separating liquid from solid bodies, applicable to the refining of sugar, drying of goods, and to purposes for which centrifugal machines are employed." *Letters Patent sealed.*

PARENT. 26th May 1855.

1197. ALFRED ISIDORE HONORÉ PARENT, Manufacturer, of Paris, Town of the French Empire, for an invention for—"Certain improvements in manufacturing buttons, nails, and metallic and plastic articles." *Provisional protection only.*

RICCI. BARTOCCI. 26th May 1855.

1198. JEAN CIANCALEONE RICCI, and CARLO BARTOCCI, of Fuligno, Town in the Papal States, for an invention for—"A new beverage." *Letters Patent sealed.*

HARRISON. 26th May 1855.

1199. CHARLES WEIGHTMAN HARRISON, of Woolwich, in the County of Kent, Civil Engineer, for an invention for—"Improvements in metal ropes, cables, and rods, and in machinery for manufacturing the same." *Letters Patent sealed.*

BELLFORD. 26th May 1855.

1200. AUGUSTE EDOUARD LORADOUX BELLFORD, of 32, Essex Street, Strand, London, in the County of Middlesex, Patent agent, for an invention for—"Improved machinery for making envelopes."—*A communication.* *Letters Patent sealed.*

BELLFORD. 26th May 1855.

1201. AUGUSTE EDOUARD LORADOUX BELLFORD, of 32, Essex Street, Strand, London, in the County of Middlesex, Patent agent, for an invention for—"A new apparatus for regulating the speed of steam-engines."—*A communication.* *Letters Patent sealed.*

RABATTÉ. RETTIG. 26th May 1855.

1202. THEODORE MARIE RABATTÉ, and JACQUES RETTIG, of Paris, in the Empire of France, and of 32, Essex Street, Strand, London, for an invention for—"Improved machinery for bruising, graining, or currying leather, skins, and hides." *Letters Patent sealed.*

AVERY. 26th May 1855.

1203. JOHN AVERY, of 32, Essex Street, Strand, London, in the County of Middlesex, Patent agent, for an invention for—"Improvements in apparatus for conveying heavy weights for bridge building and other purposes."—*A communication.* *Letters Patent sealed.*

METHVEN. 26th May 1855.

1204. DAVID METHVEN, of 9, Pembroke Cottages, Caledonian Road, Islington, for an invention for—"Improvements in the manufacture of stoppers for bottles and other vessels." *Provisional protection only.*

NEUFFER. 26th May 1855.

1205. GOTTLIEB NEUFFER, of No. 39, Finsbury Square, in the County of Middlesex, Gentleman, for an invention for—"An improved mode of producing patterns upon floor-cloths and other ornamental coverings for floors, walls, tables, and other surfaces." *Stopped at fiat.*

BOTTA. 26th May 1855.

1206. FRANÇOIS THEODORE BOTTA, Brewer, of Paris, Empire of France, for an invention for—"A new construction of furnaces, called mixed furnaces, participating of the heating by the solid fuel and by the combustion of the gaseous products." *Letters Patent sealed.*

WATERHOUSE. 26th May 1855.

1207. THOMAS WATERHOUSE, of Claremont Place, Sheffield, in the County of York, for an invention for—"Improvements in the means of actuating forge and other hammers, which improvements are also applicable to pile-driving and other like purposes."—*A communication.* *Letters Patent sealed.*

BELLFORD. 26th May 1855.

1208. AUGUSTE EDOUARD LORADOUX BELLFORD, of 32, Essex Street, in the County of Middlesex, Patent agent, for an invention for—"Improved machinery to be used in preparing flax, hemp, and other fibrous matters."—*A communication.* *Provisional protection only.*

HOWELL. 28th May 1855.

1209. JOSEPH BENNETT HOWELL, of Sheffield, in the County of York, Steel manufacturer, for an invention for—"A new or improved mode or modes of consuming more effectually the gas and gaseous products evolved during the combustion of fuel." *Letters Patent sealed.*

ROWLANDS. 28th May 1855.

1210. SAMUEL ROWLANDS, of Birmingham, in the County of Warwick, Saddler, for an invention for—"A new or improved instrument or apparatus to be used for purifying or otherwise treating gas."—*A communication.* *Letters Patent sealed.*

FULLWOOD. 28th May 1855.

1211. BENJAMIN FULLWOOD, of No. 6, Kirby Street, East India Road, Poplar, in the County of Middlesex, Manufacturing Chemist, for an invention for—"Improvements in the purification of mineral, vegetable, and animal matters containing oily, bituminous, resinous, ammoniacal, and aqueous qualities."—*Provisional protection only.*

SWINTON. 28th May 1855.

1212. EDWARD GEORGE SWINTON, of Warsash House, near Titchfield, Hampshire, a Captain in Her Majesty's 3rd Light Dragoons, and now on half pay, for an invention for—"Improvements in applying motive-power for grinding corn and for other similar purposes." *Letters Patent sealed.*

MORRISON. 28th May 1855.

1213. JOHN MORRISON, of No. 10, Arlington Square, New North Road, Islington, in the County of Middlesex, for an invention for—"A new mode of constructing railways, specially intended to be employed for the transit of carriages or vehicles moved or propelled by human power." *Letters Patent sealed.*

BELLFORD. 28th May 1855.

1214. AUGUSTE EDOUARD LORADOUX BELLFORD, of 32, Essex Street, Strand, London, Patent agent, for an invention for—"Certain improvements in ordnance and in cartridges therefor."—*A communication from Charles Frederick Brown, of Warren, State of Rhode Island, United States of America. Complete specification. Letters Patent sealed.*

ROCH. 28th May 1855.

1215. EUGENE MICHEL ROCH, of Paris, in the Empire of France, and of 32, Essex Street, Strand, London, for an invention for—"Improved apparatus for reading or bringing into sight bills, advertizements, papers, maps, and similar objects." *Letters Patent sealed.*

DE MORIES. 28th May 1855.

1216. FRÉDÉRIC DE MORIES, of Montmartre, near Paris, in the Empire of France, and of 32, Essex Street, Strand, London, for an invention for—"Improvements in obtaining motive-power." *Provisional protection only.*

BELLFORD. 28th May 1855.

1217. AUGUSTE EDOUARD LORADOUX BELLFORD, of 32, Essex Street, Strand, London, in the County of Middlesex, Patent agent, for an invention for—"Improvements in sewing-machines."—*A communication. Provisional protection only.*

LEESE. 28th May 1855.

1218. JOSEPH LEESE, Junior, of Manchester, in the County of Lancaster, Manufacturer, for an invention for—"An improvement or improvements for obtaining colouring matter." *Letters Patent sealed.*

WHITEHEAD. WHITEHEAD. 28th May 1855.

1219. JOHN WHITEHEAD, Junior, and ROBERT KAY WHITEHEAD, of Elton, near Bury, in the County of Lancaster, Bleachers and Dyers, for an invention for—"Improvements in finishing woven fabrics." *Letters Patent sealed.*

SALT. 28th May 1855.

1220. THOMAS PARTRIDGE SALT, of Birmingham, in the County of Warwick, Surgical Instrument maker, for an invention for—"Improvements in the construction of artificial legs." *Provisional protection only.*

GRAFTON. 28th May 1855.

1221. HENRY GRAFTON, of Rolls Buildings, Fetter Lane, in the County of Middlesex, for an invention for—"Improvements in apparatus for heating and cooking." *Letters Patent sealed.*

COLEMAN. 28th May 1855.

1222. RICHARD COLEMAN, of Chelmsford, in the County of Essex, for an invention for—"Improvements in the construction of land rollers, and in implements for ploughing and breaking up or scarifying the soil." *Letters Patent sealed.*

DUNN. 29th May 1855.

1223. DANIEL DUNN, Chocolate Manufacturer, of No. 9, King's Row, Pentonville, in the County of Middlesex, for an invention for—"Improvements in steam-boilers." *Letters Patent sealed.*

ACKLIN. 29th May 1855.

1224. JEAN BAPTISTE ACKLIN, Practical Engineer, in Paris, in the Empire of France, for an invention for—"Improvements in the mode of substituting paper to pasteboards in jacquard looms." *Letters Patent sealed.*

LAFOND. DE CHATAUVILLARD. 29th May 1855.

1225. ETIENNE JULES LAFOND, Engineer, and COUNT LOUIS ALFRED DE CHATAUVILLARD, of Belleville, near Paris, France, for an invention for—"Improvements in the processes of and apparatus for treating mineral, animal, and vegetable matters, for obtaining oils, essences, paraffine, and other similar products." *Letters Patent sealed.*

PAYNE. 29th May 1855.

1226. EDWARD JOHN PAYNE, of Birmingham, in the County of Warwick, Patent agent, for an invention for—"Improvements in the manufacture of covered thread." —*A communication from Cristhophe Emile Dumonteil, of Paris. Letters Patent sealed.*

CLOWES. 29th May 1855.

1227. ELLIS CLOWES, of King's Bench Walk, Temple, in the City of London, Gentleman, for an invention for—"An improved construction of spring for resisting sudden and continuous pressure."—*A communication. Provisional protection only.*

LANGSHAW. JELLEY. JELLEY. 29th May 1855.

1228. WILLIAM LANGSHAW, of Eagley, near Bolton, in the County of Lancaster, and GEORGE and WILLIAM JELLEY, of Leicester, for an invention for—"Improvements in machinery for manufacturing fancy fabrics with both sides alike." *Letters Patent sealed.*

LEE. 29th May 1855.

1229. THOMAS VINCENT LEE, of Prospect Cottage, Dulwich, in the County of Surrey, Civil Engineer, for an invention for—"Improvements in generating steam in marine and other boilers." *Letters Patent sealed.*

ROGERS. 29th May 1855.

1230. GEORGE ROGERS, of Alfred Place West, Thurloe Square, Brompton, in the County of Middlesex, for an invention for—"Improvements in apparatus for retaining and drawing off aërated liquors."—*A communication.* *Letters Patent sealed.*

HENRY. 29th May 1855.

1231. WILLIAM ARTHUR HENRY, of the firm of Marchinton, Brothers, of Bruce Works, Bridge Street, Sheffield, in the County of York, Machinists &c., for an invention for—"Improvements in vices and in the mode of securing the same to work benches." *Letters Patent sealed.*

JOHNSON. 29th May 1855.

1232. JOHN HENRY JOHNSON, of 47, Lincoln's Inn Fields, in the County of Middlesex, and of Glasgow, North Britain, Gentleman, for an invention for—"Improvements in casting metals."—*A communication from Jackson, Brothers, Petin, Gaudet, and Company, of Rive de Gier, in the Empire of France, Engineers.* *Provisional protection only.*

JOHNSON. 29th May 1855.

1233. JOHN HENRY JOHNSON, of 47, Lincoln's Inn Fields, in the County of Middlesex, and of Glasgow, North Britain, Gentleman, for an invention for—"Improvements in stamping and embossing presses."—*A communication from Carl Heinrich Otto Fünger, of Graefrath, in the Kingdom of Prussia.* *Provisional protection only.*

M'LOW. 29th May 1855.

1234. THOMAS M'LOW, of Staples Inn Buildings, No. 6, Middle Row, Holborn, London, for an invention for—"Improvements in screw propellers." *Stopped at fiat.*

AKED. 30th May 1855.

1235. ROBERT DEAN AKED, of 28, Matilda Street, Caledonian Road, Islington, in the County of Middlesex, for an invention for—"Improvements in the construction of stands for supporting crochet reels when in use." *Provisional protection only.*

NEWTON. 30th May 1855.

1236. ALFRED VINCENT NEWTON, of the Office for Patents, 66, Chancery Lane, in the County of Middlesex, Mechanical Draughtsman, for an invention for—"An improved calculating apparatus."—*A communication.* *Letters Patent sealed.*

WHARTON. 31st May 1855.

1237. EMANUEL WHARTON, of 1½, William Street, Birmingham, in the County of Warwick, Mechanical Engineer, for an invention for—"Improvements in ordnance and fire-arms." *Provisional protection only.*

WHARTON. 31st May 1855.

1238. EMANUEL WHARTON, of 1½, William Street, Birmingham, in the County of Warwick, Mechanical Engineer, for an invention for—"Improvements in the machinery for manufacturing metal tubes." *Stopped at fiat.*

WHARTON. 31st May 1855.

1239. EMANUEL WHARTON, of 1½, William Street, Birmingham, in the County of Warwick, Mechanical Engineer, for an invention for—"Improvements in steam-engines." *Letters Patent sealed.*

JULLION. 31st May 1855.

1240. JOHN LOUIS JULLION, of Combe House, Tovil, in the County of Kent, Analytical Chemist, for an invention for—"The manufacture of paper, card and mill-board, from certain vegetable productions." *Provisional protection only.*

LEETCH. 31st May 1855.

1241. JAMES LEETCH, of Westminster, in the County of Middlesex, Gunmaker, for an invention for—"An improved construction of helmet or head dress." *Provisional protection only.*

RIMINGTON. 31st May 1855.

1242. WILLIAM RIMINGTON, Junior (of the firm of Rimington and Son, of Skipton in Craven, Yorkshire, Whitesmiths and Bellhangers) for an invention for—"A new spring hinge for swing doors." *Stopped at fiat.*

DUNLOP. 31st May 1855.

1243. CHARLES TENNANT DUNLOP, of Glasgow, in the County of Lanark, North Britain, Chemist, for an invention for—"Improvements in the manufacture of chlorine." *Letters Patent sealed.*

LUBBOCK. 31st May 1855.

1244. SIR JOHN WILLIAM LUBBOCK, of Mansion House Street, in the City of London, Baronet, for an invention for—"An improvement applicable to telescopes and other similar optical instruments." *Provisional protection only.*

SACHS. 31st May 1855.

1245. HERMANN SACHS, of Newgate Street, in the City of London, Warehouseman, for an invention for—"An improved construction of fountain pen." *Provisional protection only.*

BICKERTON. 31st May 1855.

1246. SAMUEL BICKERTON, of Oldham, in the County of Lancaster, for an invention for—"An improved oil lubricator." *Letters Patent sealed.*

DE COLONGE. 31st May 1855.

1247. ANTOINE BERNARD ALFRED BARON ESPIARD DE COLONGE, of Paris, in the Empire of France, and of 32, Essex Street, Strand, London, for an invention for—"An improved diving-apparatus." *Letters Patent sealed.*

ASHWORTH. STOTT. 31st May 1855.

1248. ROBERT ASHWORTH, of Rochdale, in the County of Lancaster, Engineer, and SAMUEL STOTT, also of Rochdale, in the County of Lancaster, Cotton spinner, for an invention for—"Certain appendages to and improvements in machinery for preparing, spinning, doubling, twisting, and winding fibrous substances." *Letters Patent sealed.*

WORSDELL. 31st May 1855.

1249. THOMAS WORSDELL, of the firm of Worsdell and Evans, of Birmingham, in the County of Warwick, Engineer, for an invention for—"Improvements in lifting-jacks." *Letters Patent sealed.*

BROOMAN. 31st May 1855.

1250. RICHARD ARCHIBALD BROOMAN, of 166, Fleet Street, in the City of London, Patent agent, for an invention for—"Improvements in dyeing cotton threads, yarns, and twists."—*A communication from Charles Joseph Eugene Abder Halden, of Mulhouse, France.* *Letters Patent sealed.*

JACKSON. KERSHAW. ROBERTS. 1st June 1855.

1251. ADRIEN JACKSON, and ELI KERSHAW, both of Manchester, in the County of Lancaster, Power Loom overlookers, and JOSEPH ROBERTS, of Failsworth, near Manchester aforesaid, Engineer, for an invention for—"Improvements in looms for weaving." *Stopped at fiat.*

FONTAINEMOREAU. 1st June 1855.

1252. PETER ARMAND LE COMTE DE FONTAINEMOREAU, of 39, Rue de l'Echiquier, Paris, in the Empire of France, and 4, South Street, Finsbury, London, Patent agent, for an invention for—"Certain improvements in the treatment of vegetable and animal oils."—*A communication.* *Letters Patent sealed.*

PEYTON. STOCKER. 1st June 1855.

1253. RICHARD PEYTON, of the Bordesley Works, Birmingham, in the County of Warwick, Manufacturer of Bedsteads, and ALEXANDER SOUTHWOOD STOCKER, of the Poultry, in the City of London, Manufacturer, for an invention for—"Improvements in the manufacture of bedsteads." *Letters Patent sealed.*

VENANT. 1st June 1855.

1254. CHARLES ISIDORE CONSTANT VENANT, of Amiens, in the Empire of France, for an invention for—"Improvements in apparatus for roasting coffee and other substances." *Letters Patent sealed.*

PELLENZ. 1st June 1855.

1255. JOHN CHARLES PELLENZ, of Aix-la-Chapelle, in the Kingdom of Prussia, for an invention for—"Improvements in the manufacture of iron wheels." *Letters Patent sealed.*

WHYTOCK. 1st June 1855.

1256. RICHARD WHYTOCK, of Edinburgh, for an invention for—"Improvements in colouring yarns or threads intended to form elements of various loom fabrics, and for crochet work and knitting." *Letters Patent sealed.*

SPENCER. 1st June 1855.

1257. HENRY SPENCER, of Rochdale, in the County of Lancaster, Manager, for an invention for—"Improvements in machinery or apparatus for twisting and winding spun yarns or threads." *Letters Patent sealed.*

BOYD. 2nd June 1855.

1258. JOHN BOYD, of Ashbocking, in the County of Suffolk, Gentleman, for an invention for—"Improvements in letter-press printing machines."—*Letters Patent sealed.*

LANE. TAYLOR. 2nd June 1855.

1259. JOHN LANE, of Liverpool, in the County of Lancaster, Merchant, and JOHN TAYLOR, of Birkenhead, in the County of Chester, Engineer, for an invention for—"An improved engine." *Letters Patent sealed.*

TAYLOR. SMITH. 2nd June 1855.

1260. JAMES TAYLOR, and WILLIAM SMITH, of Manchester, in the County of Lancaster, for an invention for—"Improvements in the chairs of railways." *Stopped at first.*

COE. 2nd June 1855.

1261. CLEMENT COE, of the City of Manchester, in the County of Lancaster, Merchant, for an invention for—"Improvements in the mode or method of manufacturing druggets, buckings, pilot cloths, blankets, or similar strong materials."—*A communication.* *Stopped at first.*

LITTLE. 2nd June 1855.

1262. CHARLES LITTLE, of Derby, in the County of Derby, Engineer, for an invention for—"Improvements in machinery or apparatus for the manufacture of envelopes." *Letters Patent sealed.*

CARTWRIGHT. 2nd June 1855.

1263. HENRY CARTWRIGHT, of the Dean Broseley, in the County of Salop, for an invention for—"An improved steam cock." *Letters Patent sealed.*

ARMELIN. 2nd June 1855.

1264. FRANÇOIS CELESTIN ARMELIN, Junior, Merchant, at Draguignan, Town in the French Empire, for an invention for—"Certain improvements in ploughs." *Letters Patent sealed.*

GALANTE. 2nd June 1855.

1265. HENRY GALANTE, of No. 28, Place Dauphine, Paris, in the Empire of France, and of 4, South Street, Finsbury, London, for an invention for—"An improved surgical injection bottle." *Provisional protection only.*

DORE. 2nd June 1855.

1266. JAMES TAYLOR DORE, of High Street, Southampton, Draper, for an invention for—"An improved mode of constructing boxes or cases for holding needles, buttons, and other wares." *Provisional protection only.*

STAITE. 4th June 1855.

1267. MARY STAITE, of Liscard, in the County of Chester, for an invention for—"The manufacture of a new black paint." *Stopped at first.*

GODEFROY. 4th June 1855.

1268. PETER AUGUSTIN GODEFROY, of No. 3, Kings-mead Cottages, New North Road, Islington, in the County of Middlesex, Operative Chemist in solvents, for an invention for—"Improvements in the treatment of gutta-percha."—*Letters Patent sealed.*

INGALL. 4th June 1855.

1269. GEORGE HENRY INGALL, of Bartholomew Lane, Bank, in the City of London, in the County of Middlesex, Gentleman, for an invention for—"Improvements in coupling railway carriages." *Provisional protection only.*

KAYE. BURRELL. 4th June 1855.

1270. HORACE JOHN KAYE, of 71, Denbigh Street, Belgrave Road, London, Civil Engineer, and PERCY BURRELL, of The Hermitage, Camberwell Grove, Gentleman, for an invention for—"An improved mode of communicating to each of two trains that are in motion, the distance they respectively are from each other." *Letters Patent sealed.*

GRAVELEY. 4th June 1855.

1271. WILLIAM HENRY GRAVELEY, of 40, Upper East Smithfield, in the parish of Saint Botolph, Aldgate, in the County of Middlesex, Ships' fire hearth manufacturer, for an invention for—"An improved apparatus for cooking purposes, and improvements for the production of fresh water for ship and land use." *Letters Patent sealed; no specification filed.*

ELEY. 4th June 1855.

1272. WILLIAM ELEY, of 38, Broad Street, Golden Square, in the County of Middlesex, for an invention for—"An improvement in the manufacture of detonating caps for fire-arms." *Letters Patent sealed.*

MOREWOOD. ROGERS. 4th June 1855.

1273. EDMUND MOREWOOD, and GEORGE ROGERS, of Enfield, in the County of Middlesex, for an invention for—"Improvements in coating sheets of wrought iron." *Letters Patent sealed.*

GREEN. 4th June 1855.

1274. GEORGE GREEN, of the Mile End Road, in the County of Middlesex, Engineer, for an invention for—"Improvements in sawing-machinery." *Letters Patent sealed.*

NEWTON. 4th June 1855.

1275. WILLIAM EDWARD NEWTON, of the Office for Patents, 66, Chancery Lane, in the County of Middlesex, Civil Engineer, for an invention for—"An improved construction of ships' auger."—*A communication.* *Letters Patent sealed.*

PULS. 5th June 1855.

1276. FRANCIS PULS, of Soho Square, in the County of Middlesex, Chemist, for an invention for—"Improvements in electro-coating iron." *Letters Patent sealed.*

GEDGE. 5th June 1855.

1277. JOHN GEDGE, of No. 4, Wellington Street South, Strand, in the County of Middlesex, Patent agent, for an invention for—"Improvements in combs called curry combs."—*A communication from Mr. F. V. Vauconsant, of Metz, in the Empire of France.* *Provisional protection only.*

GEDGE. 5th June 1855.

1278. JOHN GEDGE, of No. 4, Wellington Street South, Strand, in the County of Middlesex, Patent agent, for an invention for—"Improvements in securing the contents of bottles or other similar vessels."—*A communication from Mr. Constant, Chevalier, of Paris, in the Empire of France.* *Provisional protection only.*

GEDGE. 5th June 1855.

1279. JOHN GEDGE, of No. 4, Wellington Street South, Strand, in the County of Middlesex, Patent agent, for an invention for—"Improvements in the distribution of motive-power."—*A communication from Emile Grill, of Beziers, in the Empire of France.* *Letters Patent sealed.*

COFFIN. 5th June 1855.

1280. DAVID NEWELL BROWN COFFIN, Junior, of the State of Massachusetts, of the United States of America, for an invention for—"A new and useful improvement in self closing stop cocks." *Letters Patent sealed.*

BARROWS. 5th June 1855.

1281. THOMAS BARROWS, of the State of Massachusetts, of the United States of America, for an invention for—"Improvement in the treatment of wool preparatory to its being carded, spun, or woven." *Provisional protection only.*

CURTICE. 5th June 1855.

1282. CYRUS CURTICE, of the State of Massachusetts, of the United States of America, for an invention for—"A new and improved light alarm or burglar annunciator, or apparatus to give alarm when a burglarious attempt is made to enter a room or dwelling."—*A communication from Edward Brown, and other foreigners.* *Letters Patent sealed.*

BARROWS. 5th June 1855.

1283. THOMAS BARROWS, of the State of Massachusetts, of the United States of America, for an invention for—"Improvement in the treatment of wool." *Letters Patent sealed.*

ALLEN. 5th June 1855.

1284. ETHAN ALLEN, of the State of Massachusetts, of the United States of America, for an invention for—"An improved breech loading fire-arm." *Letters Patent sealed.*

TENWICK. 5th June 1855.

1285. JOHN TENWICK, of 24, Orchard Hill, Lewisham Road, in the County of Kent, Iron moulder, for an invention for—"Improvements in water gauges for steam-boilers." *Stopped at fiat.*

NEWTON. 5th June 1855.

1286. WILLIAM EDWARD NEWTON, of the Office for Patents, 66, Chancery Lane, in the County of Middlesex, Civil Engineer, for an invention for—"Improved machinery for rolling bar iron."—*A communication.* *Provisional protection only.*

MORTON. HUNT. 5th June 1855.

1287. ALEXANDER MORTON, and EDMUND HUNT, both of Glasgow, in the County of Lanark, North Britain, Mechanical Engineers, for an inven ion for—"Improvements in motive-power engines." *Letters Patent sealed.*

GEDGE. 6th June 1855.

1288. JOHN GEDGE, of No. 4, Wellington Street South, Strand, in the County of Middlesex, Patent agent, for an invention for—"Improvements in the means of preserving grain."—*A communication from C. J. Delezenne, of Lille, in the Empire of France.* *Letters Patent sealed.*

GEDGE. 6th June 1855.

1289. JOHN GEDGE, of No. 4, Wellington Street South, Strand, in the County of Middlesex, Patent agent, for an invention for—"Improvements in the manufacture of flat tiles."—*A communication from Mr. C. J. B. J. Vaultrin, residing in the Empire of France.* *Letters Patent sealed.*

FIELDING. HOPWOOD. 6th June 1855.

1290. JOHN FIELDING, and WILLIAM HOPWOOD, of Blackburn, in the County of Lancaster, Power loom cloth manufacturers, for an invention for—"Improvements in looms." *Provisional protection only.*

LOLMÈDE. 6th June 1855.

1291. PAULINE LOLMÈDE, of Saux (Departement du Lot) in the Empire of France, Physician, for an invention for—"A new instrument for the administration of medicinal substances." *Provisional protection only.*

HOPPER. 6th June 1855.

1292. GEORGE HOPPER, of Houghton-le-Spring Iron works, in the County of Durham, Engineer, for an invention for—"Improvements in rolling and shaping metals." *Letters Patent sealed.*

LEECH. ROBINSON. BURROWS. 6th June 1855.

1293. HENRY LEECH, of Preston, in the County of Lancaster, Tea dealer, JAMES ROBINSON, of the same place, Wine merchant, and RICHARD BURROWS, of the same place, Mercer, for an invention for—"Certain improvements in machinery or apparatus for spinning cotton and other fibrous substances." *Provisional protection only.*

ROBERTSON. 6th June 1855.

1294. JAMES ROBERTSON, of Ardrossan, in the County of Ayr, North Britain, Engineer, for an invention for—"Improvements in transmitting motive-power in certain circumstances where reversing actions are necessary." *Letters Patent sealed.*

NUNN. 6th June 1855.

1295. HENRY NUNN, of Mabledon Row, Burton Crescent, New Road, in the County of Middlesex, Whitesmith, for an invention for—"Improvements in the construction of carriages for invalids and children, part of which improvements is also applicable to street cabs and other carriages." *Letters Patent sealed.*

BOUCHER. 6th June 1855.

1296. JOHN BOUCHER, of 3, Surrey Villas, Camberwell New Road, in the County of Surrey, for an invention for—"Improvements in powder-flasks, and in the sights and ramrods of fire-arms." *Letters Patent sealed.*

BAINES. 6th June 1855.

1297. WILLIAM BAINES, of Coverdale Terrace, Hunter's Lane, near Birmingham, for an invention for—"Improvements in certain parts of railways, and for the methods of manufacturing and constructing part of the same." *Letters Patent sealed.*

FAVRE. 7th June 1855.

1298. PIERRE ANTOINE FAVRE, Professor of Chemistry, à la faculté des Sciences, at Marseille, in the Empire of France, and of 4, South Street, Finsbury, London, for an invention for—"Certain improvements in employing the residue arising from the lixiviation of crude sodas." *Letters Patent sealed.*

RAMSBOTTOM. 7th June 1855.

1299. JOHN RAMSBOTTOM, of Longsight, near the City of Manchester, Engineer, for an invention for—"Improvements in safety valves and feeding apparatus for steam-boilers." *Letters Patent sealed.*

BUNCLE. 7th June 1855.

1300. JOHN BUNCLE, of Springfield, Linlithgow, North Britain, Chemist, for an invention for—"An improvement in bleaching resinous substances (calophane) for the manufacture of soap." *Letters Patent sealed.*

HEAP. 7th June 1855.

1301. MOSES HEAP, of Blackburn, in the County of Lancaster, Print dealer, for an invention for—"Certain improvements in machinery or apparatus for 'grinding' dye-woods or roots, and for other similar pulverizing purposes."—*Letters Patent sealed.*

OGDEN. 7th June 1855.

1302. THOMAS OGDEN, of Manchester, in the County of Lancaster, Cotton spinner, for an invention for—"Certain improvements in machinery or apparatus for spinning cotton and other fibrous materials." *Provisional protection only.*

ORANGE. 7th June 1855.

1303. ANDRÉ ORANGE, of Edinburgh, in the County of Mid-Lothian, North Britain, Artist, for an invention for—"Improvements in obtaining representations for commercial purposes, of articles for sale." *Provisional protection only.*

REYNOLDS. 7th June 1855.

1304. JOHN ANDRUS REYNOLDS, of Elmira, in the State of New York, and United States of America, but now residing at the Tavistock Hotel, Covent Garden, in the County of Middlesex, Doctor of Medicine, for an invention for—"Improved machinery for discharging volleys of shot." *Letters Patent sealed.*

FEHRMAN. 7th June 1855.

1305. DIEDERICH FEHRMAN, of Liverpool, Oil merchant, for an invention for—"Improvements in lamps."—*A communication.* *Provisional protection only.*

GUFFROY. 7th June 1855.

1306. CHARLES CONSTANT JOSEPH GUFFROY, Merchant, of Lille, Town in the French Empire, for an invention for—"An improved smoke consuming apparatus." *Letters Patent sealed.*

TUCKER. 7th June 1855.

1307. RICHARD ANSTEY TUCKER, of Lenton, in the County of Nottingham, Starch manufacturer, for an invention for—"Using the gas and smoke arising from coal or other substances during the process of combustion, for fuel."—*Letters Patent sealed.*

PETERS. 7th June 1855.

1308. RICHARD PETERS, of Union Street, in the Borough of Southwark, Engineer, for an invention for—"Improvements in the manufacture of ordnance shells and other hollow vessels." *Letters Patent sealed.*

CAUNCE. 8th June 1855.

1309. ROBERT CAUNCE, of Bolton-le-Moors, in the County of Lancaster, Cashier, for an invention for—"Improvements in machinery for sizing, dressing, and warping yarn." *Provisional protection only.*

FONTAINEMOREAU. 8th June 1855.

1310. PETER ARMAND LE COMTE DE FONTAINEMOREAU, of No. 4, South Street, Finsbury, London, and 39, Rue de l'Echiquier, Paris, Patent agent, for an invention for—"Certain improvements in the manufacture of iron shovels."—*A communication.* *Letters Patent sealed.*

WEAVER. 8th June 1855.

1311. FREDERICK WEAVER, of Clarence Place, Heathfield Road, Handsworth, in the County of Stafford, Bone dealer and Grinder, for an invention for—"Improvements in machinery for grinding or crushing bones and other substances." *Provisional protection only.*

LIPPMANN. 8th June 1855.

1312. ISAIE LIPPMANN, of No. 4, Rue Geoffroy Saint Hilaire, Paris, in the Empire of France, Tanner, for an invention for—"Improvements in the treatment of hides and skins for the manufacture of leather." *Letters Patent sealed.*

CHANTRELL. 8th June 1855.

1313. GEORGE FREDERICK CHANTRELL, of Liverpool, in the County of Lancaster, Furnace Engineer, for an invention for—"Improvements in apparatus applicable to the manufacture and revivification of animal or vegetable charcoal."—*Letters Patent sealed.*

SIBILLE. 9th June 1855.

1314. HENRI SIBILLE, Merchant, of Paris (France) for an invention for—"Improvements in the decortication and preserving of grain and seeds." *Stopped at fiat.*

NETTLEFOLD. NETTLEFOLD. NETTLEFOLD. 9th June 1855.

1315. JOHN SUTTON NETTLEFOLD, EDWARD JOHN NETTLEFOLD, and JOSEPH HENRY NETTLEFOLD, of Holborn, in the County of Middlesex, for an invention for—"Improvements in locks."—*A communication.* *Letters Patent sealed.*

LAFOND. DE CHATAUVILLARD. 9th June 1855.

1316. ETIENNE JULES LAFOND, Engineer, and COUNT LOUIS ALFRED DE CHATAUVILLARD, of Belleville, near Paris, France, for an invention for—"Improvements in apparatus for lighting." *Letters Patent sealed.*

TEAGUE. 9th June 1855.

1317. HENRY TEAGUE, of the City of Lincoln, Engineer, for an invention for—"Improvements in high and low pressure meters for water, gas, or any other fluid." *Provisional protection only.*

VARLEY. 9th June 1855.

1318. CROMWELL FLEETWOOD VARLEY, of No. 1, Charles Street, Somers Town, Saint Pancras, in the County of Middlesex, for an invention for—"Improvements in electric telegraphs." *Letters Patent sealed.*

BRIGHT. 9th June 1855.

1319. THOMAS BRIGHT, Iron founder, of Carmarthen, South Wales, for an invention for—"Improvements in apparatus for the prevention of waste in water or other fluid supplies." *Letters Patent sealed.*

COOKE. 9th June 1855.

1320. MASTA JOSCELIN COOKE, of Newcastle-upon-Tyne, Gentleman, for an invention for—"Preserving provisions and vegetables suitable for armies in the field, for vessels on long voyages, and other purposes, and also for the necessary apparatus for preserving and preparing the same for food." *Letters Patent sealed.*

ROBINSON. 9th June 1855.

1321. JOSEPH ROBINSON, of Poplar, in the County of Middlesex, Surveyor, for an invention for—"Improvements in tables." *Letters Patent sealed.*

GREENWOOD. 9th June 1855.

1322. JOHN GREENWOOD, of Irwell Springs, near Bacup, in the County of Lancaster, Turkey red dyer, for an invention for—"Improvements in purifying oils." *Letters Patent sealed.*

COLT. 9th June 1855.

1323. SAMUEL COLT, of Pall Mall, in the City of Westminster, Gentleman, for an invention for—"An improvement in the construction of fire-arms." *Letters Patent sealed.*

COLT.
ELEY.
9th June 1855.

1324. SAMUEL COLT, of Pall Mall, in the City of Westminster, Gentleman, and WILLIAM THOMAS ELEY, of Broad Street, Golden Square, in the County of Middlesex, Percussion cap manufacturer, for an invention for—"Improvements in the manufacture of cartridges." *Letters Patent sealed.*

HALL.
11th June 1855.

1325. WILLIAM KEMBLE HALL, of Mark Lane, in the City of London, Engineer, for an invention for—"Improvements in breaks for railway carriages." *Letters Patent sealed.*

BARLOW.
11th June 1855.

1326. HENRY BERNOULLI BARLOW, of the City of Manchester, Patent agent, for an invention for—"Improvements in certain parts of machines used in slubbing and roving cotton and other fibrous materials."—*A communication. Letters Patent sealed.*

BAKEWELL.
11th June 1855.

1327. FREDERICK COLLIER BAKEWELL, of No. 6, Haverstock Terrace, Hampstead, in the County of Middlesex, for an invention for—"Improvements in bench planes."—*A communication from William S. Hopper, of the United States of North America. Stopped at fiat.*

KIND.
11th June 1855.

1328. JOHN DAVID KIND, of Birmingham, in the County of Warwick, Manufacturer, for an invention for—"An improvement or improvements in spindles for locks and latches, and in attaching knobs or handles to the said spindles."—*Letters Patent sealed.*

CASARTELLI.
11th June 1855.

1329. JOSEPH LOUIS CASARTELLI, of the City of Manchester, in the County of Lancaster, Optician, for an invention for—"Improvements in pressure and vacuum gauges." *Provisional protection only.*

GARDNER.
WALKER.
11th June 1855.

1330. EDWARD VINCENT GARDNER, of 21, Norfolk Street, Middlesex Hospital, in the County of Middlesex, and JOHN HUTCHINSON WALKER, of Cole Street, Dover Road, in the County of Surrey, for an invention for—"Improvements in separating cotton, flax, hemp, jute and other vegetable substances, from manufactured fabrics containing wool, and in preparing the wool for re-manufacture." *Provisional protection only.*

BARRINGTON.
LE FANU.
11th June 1855.

1331. WILLIAM BARRINGTON, of South Villa, Limerick, and WILLIAM RICHARD LE FANU, of Fitzwilliam Square, in the City of Dublin, Civil Engineers, for an invention for—"An improved mode of joining 'bridge rails' in the permanent way of railways, by means of a fish piece." *Stopped at fiat.*

BARDO.
11th June 1855.

1332. FREDERICK THOMAS STONEHAM BARDO, of the Royal Exchange, in the City of London, Manager to Carter and Bromley, Stationers, for an invention for—"An improvement in cases for carrying tickets, cards, and other like articles." *Provisional protection only.*

JOHNSON.
11th June 1855.

1333. JOHN HENRY JOHNSON, of 47, Lincoln's Inn Fields, in the County of Middlesex, and of Glasgow, North Britain, Gentleman, for an invention for—"Improvements in metallic pens."—*A communication from Samuel Barbot, of Paris, Mechanician, and Louis Charles Riottot, of L'Isle Adam, in the Empire of France, Jeweller. Provisional protection only.*

JOHNSON.
11th June 1855.

1334. JOHN HENRY JOHNSON, of 47, Lincoln's Inn Fields, in the County of Middlesex, and of Glasgow, North Britain, Gentleman, for an invention for—"Improvements in governors or regulators for prime movers."—*A communication from François Theophile Moison, of Mouy, in the Empire of France, Mechanician. Letters Patent sealed.*

LIPPMANN.
11th June 1855.

1335. ISAIE LIPPMANN, of No. 4, Rue Geoffroy Saint Hilaire, Paris, in the Empire of France, Tanner, for an invention for—"Improvements in dyeing or colouring the hides and skins of animals." *Letters Patent sealed.*

LIEBISCH.
12th June 1855.

1336. JOHN JOSEPH LIEBISCH, of London, Engineer, for an invention for—"Improvements in rails for railways." *Letters Patent sealed.*

ARMITAGE.
12th June 1855.

1337. WILLIAM ARMITAGE, of the City of Manchester, in the County of Lancaster, Spinner and manufacturer, for an invention for—"Improvements in the manufacture of union bags and sail cloth." *Letters Patent sealed.*

HACKNEY.
12th June 1855.

1338. NATHAN HACKNEY, of 20, North Street, Hull, for an invention for—"An improvement in the manufacture of earthenware, china, and porcelain." *Letters Patent sealed.*

COULSON. 12th June 1855.

1339. SAMUEL COULSON, of Sheffield, Metallurgist, for an invention for—"An improvement in the preparation of sulphate of baryta, and in the manufacture of glass when sulphate of baryta is used." *Letters Patent sealed; no specification filed.*

JOHNSON. 12th June 1855.

1340. WILLIAM BECKETT JOHNSON, Manager for Mess^rs^ R. Ormerod and Son, of Manchester, in the County of Lancaster, Engineers, for an invention for—"Improvements in steam-boilers and safety valves." *Letters Patent sealed.*

METCALFE. 12th June 1855.

1341. THOMAS METCALFE, of High Street, Camden Town, in the County of Middlesex, Gentleman, for an invention for—"An improved mode of manufacturing collapsible hats and bonnets." *Provisional protection only.*

PARKER. 12th June 1855.

1342. CHARLES PARKER, of Dundee, in the County of Forfar, North Britain, Manufacturer, for an invention for—"Improvements in weaving." *Letters Patent sealed.*

FORD. 12th June 1855.

1343. HENRY WILLIAM FORD, of the City of Gloucester, Civil Engineer, for an invention for—"Improvements in machinery or apparatus for effecting agricultural operations." *Letters Patent sealed.*

BRANT. 12th June 1855.

1344. JOHN CHARLES BRANT, Manufacturer, of 8, Surrey Square, Old Kent Road, in the County of Surrey, for an invention for—"Improvements in laying rails, chairs, and sleepers, for the permanent way of railways." *Letters Patent sealed.*

BAKEWELL. 13th June 1855.

1345. FREDERICK COLLIER BAKEWELL, of No. 6, Haverstock Terrace, Hampstead, in the County of Middlesex, for an invention for—"Improvements in apparatus for supplying furnaces with hot air."—*A communication from Calvin Fletcher, of North America.* *Letters Patent sealed.*

BAKEWELL. 13th June 1855.

1346. FREDERICK COLLIER BAKEWELL, of No. 6, Haverstock Terrace, Hampstead, in the County of Middlesex, for an invention for—"Improvements in rotating breech fire-arms."—*A communication from Josiah Ells, of the United States of North America.* *Letters Patent sealed.*

AVERY. 13th June 1855.

1347. JOHN AVERY, of 32, Essex Street, Strand, London, Patent agent, for an invention for—"Improvements in oscillating steam-engines."—*A communication.* *Letters Patent sealed.*

BLACKMAN. 13th June 1855.

1348. WILLIAM JOHN BLACKMAN, of the Hippodrome, Kensington, in the County of Middlesex, for an invention for—"A new medicine or syrup for the cure of coughs." *Provisional protection only.*

TURNER. TURNER. 13th June 1855.

1349. EDWARD RUSH TURNER, and FREDERICK TURNER, of Saint Peter's Foundry, Ipswich, in the County of Suffolk, Engineers, for an invention for—"Improvements in machinery or apparatus for crushing and grinding grain, seeds, and pulse." *Letters Patent sealed.*

MOXON. CLAYTON. 13th June 1855.

1350. WILLIAM MOXON, of Rochdale, in the County of Lancaster, Mechanic, and JOHN CLAYTON, of the same place, Carpet manager, for an invention for—"Certain improvements in looms for weaving carpets or other looped fabrics." *Letters Patent sealed.*

HENSON. 13th June 1855.

1351. HENRY HENSON HENSON, of Parliament Street, in the City of Westminster, Civil Engineer, for an invention for—"Improvements in the construction of portable and other buildings, and in the means of ventilating buildings." *Stopped at fiat.*

BETTELEY. 13th June 1855.

1352. JOSEPH BETTELEY, of Liverpool, Chain-cable manufacturer, for an invention for—"An improvement in the manufacture of iron knees for ship building." *Letters Patent sealed.*

BETTELEY. 13th June 1855.

1353. JOSEPH BETTELEY, of Liverpool, Chain-cable manufacturer, for an invention for—"An improvement in ships' anchors." *Letters Patent sealed.*

COTTAM. 13th June 1855.

1354. GEORGE COTTAM, of Winsley Street, Oxford Street, in the County of Middlesex, Engineer, for an invention for—"Improvements in hayracks and harness brackets." *Letters Patent sealed.*

BIDDELL. 13th June 1855.

1355. GEORGE ARTHUR BIDDELL, of Ipswich, in the County of Suffolk, for an invention for—"Improvements in the manufacture of machines for cutting or grinding vegetable and other substances." *Letters Patent sealed.*

LODGE. MARSHALL. 13th June 1855.

1356. EDWIN LODGE, of Mirfield, in the parish of Mirfield, in the County of York, Manufacturing Chemist, and GEORGE MARSHALL, of Huddersfield in the same County, Chemist and Druggist, for an invention for—"Certain improvements in the production of animal and vegetable naphtha, ammonia, and charcoal, and also for the evolution of the carburetted and oleflant gases therefrom." *Stopped at fiat.*

SINCLAIR. 14th June 1855.

1357. GODFREY SINCLAIR, of Regent Street, in the County of Middlesex, Gentleman, for an invention for—"Improvements in signalizing between the engine-drivers and the guards of railway trains." *Provisional protection only.*

HOLLIS. 14th June 1855.

1358. EBENEZER HOLLIS, of Birmingham, in the County of Warwick, Gun-maker, for an invention for—"A new or improved method of securing ramrods to fire-arms." *Letters Patent sealed.*

ENOUY. 14th June 1855.

1359. JOSEPH ENOUY, residing at No. 31, Denbigh Place, Pimlico, in the parish of Saint George's, Hanover Square, Middlesex, for an invention for—"The means of 'removal' of every rotary or revolving 'barrel or cylinder' containing chambers, from all revolver pistols, guns, and fire-arms, and the 'substitution' in their place by another and other 'barrels or cylinders' in succession." *Letters Patent sealed.*

ROBERTSON. 14th June 1855.

1360. ALEXANDER ROBERTSON, of the parish of Saint Mary, Islington, in the County of Middlesex, Engineer, for an invention for—"A new manufacture of packages for dry or moist goods or liquids." *Provisional protection only.*

LELOUP. 14th June 1855.

1361. FELIX LELOUP, Engineer, of Paris, Town in the French Empire, for an invention for—"Certain improvements in treating textile fabrics or substances for separating cotton or other vegetable substances from wool, silk, and other animal products."—*A communication.* *Letters Patent sealed.*

LISTER. 14th June 1855.

1362. SAMUEL CUNLIFFE LISTER, of Manningham, Bradford, in the County of York, for an invention for—"Improvements in treating silk waste, also the noils of silk, wool, and goats' wool or hair, before being spun." *Letters Patent sealed.*

CHANCE. 14th June 1855.

1363. JAMES TIMMINS CHANCE, of Birmingham, for an invention for—"Improvements in glass flattening furnaces."—*A communication.* *Letters Patent sealed.*

HEWITT. 15th June 1855.

1364. WILLIAM HEWITT, of Bristol, in the County of Somerset, Gentleman, for an invention for—"Improvements in propelling vessels." *Letters Patent sealed.*

CLAY. 15th June 1855.

1365. WILLIAM CLAY, of Liverpool, in the County of Lancaster, Iron manufacturer, for an invention for—"An improved manufacture of bar iron."—*Letters Patent sealed.*

CLAY. 15th June 1855.

1366. WILLIAM CLAY, of Liverpool, in the County of Lancaster, Iron manufacturer, for an invention for—"The application of certain descriptions of bar iron to purposes where great strength or stiffness is required." *Letters Patent sealed.*

BRIDGEWATER. 15th June 1855.

1367. HENRY BRIDGEWATER, of Alfred Place, Bedford Square, in the County of Middlesex, Gentleman, for an invention for—"An improved construction of spike for railway and other purposes." *Letters Patent sealed.*

LEE. 15th June 1855.

1368. WILLIAM LEE, of Duke Street, in the City of Westminster, Civil Engineer, for an invention for—"Improvements in water-closets." *Stopped at fiat.*

MATHIS. 15th June 1855.

1369. HIPPOLYTE MATHIS, Négociant, of 42, Rue Notre Dame des Victoires, à Paris, for an invention for—"Improvements in preserving wood."—*A communication from Doctor Boucherie.* *Letters Patent sealed.*

SADLER. 15th June 1855.

1370. JOHN HARVEY SADLER, of Lady Pitt Lane, Hunslet, Leeds, for an invention for—"Improvements in looms for weaving." *Letters Patent sealed.*

MORRELL. 15th June 1855.

1371. GEORGE FREDERICK MORRELL, of Fleet Street, in the City of London, Ink manufacturer, for an invention for—"An improvement in ink bottles or ink vessels." *Letters Patent sealed.*

PALLIER. 16th June 1855.

1372. DUMONT PALLIER, of Broad Street, Lambeth, in the County of Surrey, Grease manufacturer, for an invention for—"Improvements in the manufacture of soap or saponaceous substances." *Letters Patent sealed.*

JONES. 16th June 1855.

1373. WILLIAM JONES, of Birkenhead, in the County of Chester, Boiler maker, for an invention for—"Improvements in machinery for punching and shearing plates of metal, which improvements are also applicable to stamping and pressing metals and other substances." *Letters Patent sealed.*

WEBSTER. 16th June 1855.

1374. JAMES WEBSTER, of Birmingham, in the County of Warwick, Engineer, for an invention for—"A new or improved balance." *Letters Patent sealed.*

VAUDELIN. 16th June 1855.

1375. LAZARE FRANÇOIS VAUDELIN, of Upper Charlotte Street, Fitzroy Square, in the County of Middlesex, for an invention for—"Improvements in railway breaks or brakes." *Stopped at fiat.*

LOWE. 16th June 1855.

1376. JAMES LOWE, of East Greenwich, in the County of Kent, Machinist, for an invention for—"Improved apparatus to be employed in place of paddle-wheels or ordinary stern propellers, for propelling vessels." *Letters Patent sealed.*

SELLARS. 18th June 1855.

1377. JOHN SELLARS, of the firm of John Sellars & Co., of Monsall House, near Manchester, Starch and Gum manufacturer, for an invention for—"Improvements in the manufacture of starch, and in the use of substances employed therein." *Letters Patent sealed.*

CARLHIAN. CORBIERE. 18th June 1855.

1378. ISIDORE CARLHIAN, and ISIDORE CORBIERE, being Copartners, trading as the firm and under the style of Carlhian and Corbiere, of No. 27, Castle Street, Holborn, in the City of London, Lamp manufacturers, for an invention for—"Improvements in moderator lamps." *Letters Patent sealed.*

RÉAL. 18th June 1855.

1379. LOUIS HENRI RÉAL, Doctor, of Paris, in the French Empire, for an invention for—"Certain improvements in elastic bottoms or seatings for beds, mattresses, and seats." *Letters Patent sealed.*

PEAKER. BENTLEY. 18th June 1855.

1380. RICHARD PEAKER, of Methley, in the County of York, Corn miller, and THOMAS BENTLEY, of Wakefield, in the same County, Corn miller, for an invention for—"Improvements applicable to machinery for grinding wheat and other grain, cement, and other substances." *Letters Patent sealed.*

WILDING. 18th June 1855.

1381. WILLIAM HENRY WILDING, of New Road, in the County of Middlesex, Civil Engineer, for an invention for—"Improvements in furnaces." *Provisional protection only.*

BESSEMER. 18th June 1855.

1382. HENRY BESSEMER, of Queen Street Place, New Cannon Street, in the City of London, Engineer, for an invention for—"Improvements in screw propellers, and in the shafts and cranks by which they are driven, which improvements are also applicable generally to the shafts and cranks of marine, stationary, and locomotive steam-engines." *Letters Patent sealed.*

LITTLE. 18th June 1855.

1383. WILLIAM LITTLE, of the Strand, for an invention for—"Improvements in printing machinery." *Letters Patent sealed.*

BESSEMER. 18th June 1855.

1384. HENRY BESSEMER, of Queen Street Place, New Cannon Street, in the City of London, for an invention for—"Improvements in the manufacture of cast steel and mixtures of steel and cast iron." *Letters Patent sealed.*

BLANCHARD. 18th June 1855.

1385. THOMAS BLANCHARD, Mechanical Engineer, of No. 2, Rue Drouot, in the City of Paris, in France, for an invention for—"A new and improved method of bending timber." *Letters Patent sealed.*

BESSEMER. 18th June 1855.

1386. HENRY BESSEMER, of Queen Street Place, New Cannon Street, in the City of London, Engineer, for an invention for—"Improvements in the manufacture of ordnance." *Letters Patent sealed.*

FRANCIS. 18th June 1855.

1387. HENRY FRANCIS, of 456, West Strand, for an invention for—"Improvements in cutting out parts of garments or articles of dress."—*Provisional protection only.*

BESSEMER. 18th June 1855.

1388. HENRY BESSEMER, of Queen Street Place, New Cannon Street, in the City of London, Engineer, for an invention for—"Improvements in the manufacture of rolls or cylinders used in the lamination, shaping, and cutting of metals, in crushing ores and other substances, and in calendering, glazing, embossing, printing, and pressing." *Letters Patent sealed.*

MYERS.
18th June 1855.

1389. EDWARD MYERS, of Rotherham, in the County of York, Engineer, for an invention for—"Improvements in machinery or apparatus for raising water or other liquids." *Stopped at fiat.*

BESSEMER.
18th June 1855.

1390. HENRY BESSEMER, of Queen Street Place, New Cannon Street, in the City of London, Engineer, for an invention for—"Improvements in the manufacture of railway wheels." *Letters Patent sealed.*

MYERS.
POTTER.
18th June 1855.

1391. EDWARD MYERS, of Rotherham, in the County of York, Engineer, and JOHN WRIGHT POTTER, of the same place, Gentleman, for an invention for—"Improvements in buffers, draw springs, and bearing springs."—*Provisional protection only.*

JONES.
18th June 1855.

1392. JOHN JONES, of Sheffield, in the County of York, Engineer, for an invention for—"Improvements in obtaining motive-power." *Letters Patent sealed.*

JOHNSON.
18th June 1855.

1393. JOHN HENRY JOHNSON, of 47, Lincoln's Inn Fields, in the County of Middlesex, and of Glasgow, North Britain, Gentleman, for an invention for—"Improvements in furnaces or fire-places."—*A communication from Nicholas François Corbin Desboissierés, of Paris, in the Empire of France, Metallurgical Chemist.*
Letters Patent sealed.

HARTMANN.
19th June 1855.

1394. CHARLES ANTOINE HARTMANN, Gentleman, of Paris, in the French Empire, for an invention for—"Certain improvements in the preparation or combination of colours for printing stuffs and textile fabrics." *Letters Patent sealed.*

NORTON.
19th June 1855.

1395. JEHIEL FORBES NORTON, of the City of Manchester, in the County of Lancaster, Merchant, for an invention for—"Improvements in machinery or apparatus for measuring liquids and fluids, which is also applicable for obtaining motive-power."—*A communication.* *Provisional protection only.*

DIXON.
BAILEY.
19th June 1855.

1396. EDWIN DIXON, of Wolverhampton, in the County of Stafford, Manufacturer, and THOMAS BAILEY, of Wolverhampton aforesaid, Brass founder, for an invention for—"A new or improved tap or cock." *Provisional protection only.*

BURKE.
19th June 1855.

1397. FRANCIS BURKE, of Woodlands, Montserrat, British West Indies, at present residing in London, Gentleman, for an invention for—"Improvements in preparing pulp or pulpous material applicable in the manufacture of paper and for other useful purposes." *Letters Patent sealed.*

MACINTOSH.
19th June 1855.

1398. JOHN MACINTOSH, of Great Ormond Street, in the County of Middlesex, for an invention for—"Improvements in fuses, fusees, and matches."
Letters Patent sealed.

GOVER.
19th June 1855.

1399. DANIEL GOVER, of King Street, Long Acre, in the County of Middlesex, Builder, for an invention for—"Improvements in the construction of gun carriages and appliances connected therewith." *Letters Patent sealed.*

LETCHFORD.
19th June 1855.

1400. JAMES LETCHFORD, of Duncan Place, Hackney, in the County of Middlesex, Metallic bedstead maker, for an invention for—"An improved construction of folding bedstead." *Letters Patent sealed.*

JOHNSON.
19th June 1855.

1401. JOHN HENRY JOHNSON, of 47, Lincoln's Inn Fields, in the County of Middlesex, and of Glasgow, North Britain, Gentleman, for an invention for—"Improvements in machinery or apparatus for emptying cesspools and privies."—*A communication from Jean Pierre Louis Florimond Datichy, of Paris, in the Empire of France, Mechanician.* *Letters Patent sealed.*

JOHNSON.
19th June 1855.

1402. JOHN HENRY JOHNSON, of 47, Lincoln's Inn Fields, in the County of Middlesex, and of Glasgow, North Britain, Gentleman, for an invention for—"Improvements in the storing and treatment of grain."—*A communication from Jean Gustave De Coninck, of Havre, in the Empire of France, Merchant.* *Letters Patent sealed.*

JOHNSON.
19th June 1855.

1403. JOHN HENRY JOHNSON, of 47, Lincoln's Inn Fields, in the County of Middlesex, and of Glasgow, North Britain, Gentleman, for an invention for—"Improvements in the manufacture of dish-covers, dishes, plates, and other articles of sheet metal, and in the machinery or apparatus employed therein."—*A communication from Henry Victor Alard, of Paris, in the Empire of France, Engraver.*
Provisional protection only.

HERTS.
20th June 1855.

1404. DANIEL BENJAMIN HERTS, of No. 17, Cornhill, London, for an invention for—"An improved life-preserving harness."—*A communication from George Yellott, and Samuel Hunt, both of the State of Maryland, and United States of America.*
Provisional protection only.

HOLMES.
20th June 1855.

1405. WILLIAM CARTWRIGHT HOLMES, of Huddersfield, in the County of York, Gas Engineer, for an invention for—"Improvements in the manufacture of gas and in apparatus employed therein." *Letters Patent sealed.*

LONGRIDGE.
20th June 1855.

1406. ROBERT BEWICK LONGRIDGE, of the City of Manchester, in the County of Lancaster, Engineer, for an invention for—"Improvements in the construction of steam-boilers and malleable iron tubes." *Provisional protection only.*

GREEN.
20th June 1855.

1407. JOHN GREEN, of 27, Charlotte Street, Portland Place, in the County of Middlesex, Gentleman, for an invention for—"Improvements in oil lamps generally termed moderators." *Provisional protection only.*

GERNON.
20th June 1855.

1408. JAMES GERNON, of 14, Buckingham Street, Adelphi, in the County of Middlesex, for an invention for—"Improvements in the manufacture of articles of clay."—*A communication.* *Provisional protection only.*

GERNON.
20th June 1855.

1409. JAMES GERNON, of 14, Buckingham Street, Adelphi, in the County of Middlesex, for an invention for—"Improvements in the manufacture of plaster of Paris and cement."—*A communication.* *Provisional protection only.*

WALKER.
M'KENZIE.
20th June 1855.

1410. ROBERT WALKER, of Glasgow, Merchant, and ALEXANDER M'KENZIE, also of Glasgow, Machinist, for an invention for—"Improvements in electric telegraphs." *Letters Patent sealed.*

DE MARTINOI.
O' DE LARA.
20th June 1855.

1411. GIOVANNI MARTENOLI DE MARTINOI, of Valesolis, Tuscany, and JUAN FRANCISCO O' DE LARA, of Spain, for an invention for—"The employment of a new material in the manufacture of paper." *Provisional protection only.*

SAVAGE.
20th June 1855.

1412. ROBERT WATSON SAVAGE, of Saint James' Square, in the County of Middlesex, Patent door spring manufacturer, for an invention for—"Improvements in single and double action swing doors." *Letters Patent sealed.*

LANE.
20th June 1855.

1413. URIAH LANE, of 46, Regency Square, Brighton, in the County of Sussex, for an invention for—"An improvement in the manufacture of pumps." *Letters Patent sealed.*

COCHAUD.
20th June 1855.

1414. ELISE COCHAUD, Widow, of Paris, in the Empire of France, and of 32, Essex Street, Strand, Middlesex, for an invention for—"Improved apparatus to be used in making aërated or gaseous liquids." *Letters Patent sealed.*

POL.
20th June 1855.

1415. LOUIS POL, Piano maker, of Paris, Empire of France, and of 32, Essex Street, Strand, London, for an invention for—"Certain improvements in Piano-fortes." *Letters Patent sealed.*

NEWTON.
20th June 1855.

1416. WILLIAM EDWARD NEWTON, of the Office for Patents, 66, Chancery Lane, in the County of Middlesex, Civil Engineer, for an invention for—"Improved machinery for polishing or finishing thread."—*A communication.* *Letters Patent sealed.*

FABIEN.
20th June 1855.

1417. JEAN FRANÇOIS VICTOR FABIEN, of Paris, in the Empire of France, but now residing at Gregory's Hotel, Cheapside, in the City of London, Gentleman, for an invention for—"Improved machinery for manufacturing wheels."—*A communication.* *Letters Patent sealed.*

JULLION.
21st June 1855.

1418. JOHN LOUIS JULLION, of Combe House, Tovil, in the County of Kent, Analytical Chemist, for an invention for—"The manufacture of paper, card and millboard, from certain vegetable productions." *Letters Patent sealed.*

WILKINS.
21st June 1855.

1419. WILLIAM CRANE WILKINS, of Long Acre, in the City of Westminster, Lighthouse Engineer, for an invention for—"An improvement in lamps." *Letters Patent sealed.*

Rioux. De Pariente. 21st June 1855.

1420. Pierre François Rioux, of 103, Faubourg St. Denis, near Paris, and Leon De Pariente, of No. 123, Rue de Brabant, in the Faubourg of Schaerbeck, next Brussels, in the Kingdom of Belgium, for an invention for—"Improvements in the fixing of metallic ornaments upon paper, flock, leather, cotton, silk, or any other fabrics to which such ornaments may be applicable."—*A communication.*
Provisional protection only.

Shelley. 21st June 1855.

1421. Matthew Shelley, of 12, Union Crescent, Union Street, Kingsland Road, in the County of Middlesex, Engineer, for an invention for—"Improvements in cooking-utensils." *Stopped at fiat.*

Birch. 21st June 1855.

1422. James Robert Birch, of No. 7, Washington Street, Liverpool, in the County of Lancaster, for an invention for—"An improved boat plug or self acting valve." *Provisional protection only.*

Ben'Jamin. 21st June 1855.

1423. Jacob Ben'Jamin, of Leadenhall Street, in the City of London, for an invention for—"Improvements in apparatus for the manufacture of gas."—*A communication from Henri Leprince, of Liege, in Belgium.* *Letters Patent sealed.*

Bougereau. 21st June 1855.

1424. Theodore Bougereau, of 46, Lime Street, for an invention for—"Improvements in apparatus for roasting coffee." *Letters Patent sealed.*

Keevil. 21st June 1855.

1425. Richard Keevil, of Lacock, Chippenham, for an invention for—"Improvements in vessels used in the manufacture of cheese." *Letters Patent sealed.*

Basébé. 21st June 1855.

1426. William Basébé, of 2, Mayfield Place, High Street, Kensington, for an invention for—"An improvement in the manufacture of paper."—*Letters Patent sealed.*

Green. 21st June 1855.

1427. Charles Edmund Green, of No. 13, Blandford Street, Portman Square, in the County of Middlesex, for an invention for—"Improvements in huts, tents, and camp hospitals." *Provisional protection only.*

Young. 21st June 1855.

1428. Luther Young, of Bow Lane, Cheapside, in the City of London, Gas-fitter, for an invention for—"An improvement in the construction of gas regulators."
Letters Patent sealed.

Pierce. 21st June 1855.

1429. Thomas Carey Willard Pierce, of Manchester, in the County of Lancaster, Merchant, for an invention for—"Certain improvements in machinery or apparatus for finishing yarns or threads manufactured from cotton, silk, flax, or other textile materials." *Provisional protection only.*

Bellford. 21st June 1855.

1430. Auguste Edouard Loradoux Bellford, of 32, Essex Street, Strand, London, Patent agent, for an invention for—"Improvements in steam-engines for pumping and other purposes, part of which improvements is also applicable to pumps."
A communication. *Letters Patent sealed.*

Teall. 22nd June 1855.

1431. William Teall, of Wakefield, in the County of York, Engineer, for an invention for—"An improved method of treating and working soapy waters in order to obtain the greasy substances therefrom." *Letters Patent sealed.*

Chase. 22nd June 1855.

1432. Oliver Rice Chace, of Boston, in the United States of America, but now of 17, Cornhill, London, for an invention for—"An improved machine for making lozenges and for other purposes." *Letters Patent sealed.*

Simon. 22nd June 1855.

1433. Simon Eugene Gabriel Simon, of Paris, France, and 4, South Street, Finsbury, London, Gentleman, for an invention for—"The use of a new material in the manufacture of paper." *Letters Patent sealed.*

White. 22nd June 1855.

1434. Stephen White, of Liverpool, in the County of Lancaster, Miller, for an invention for—"Improvements in washing, cleansing, and drying grain."
Letters Patent sealed.

Bellford. 22nd June 1855.

1435. Auguste Edouard Loradoux Bellford, of 32, Essex Street, Strand, London, Patent agent, for an invention for—"Improvements in screw fastenings."—*A communication.* *Letters Patent sealed.*

BELLFORD. 22nd June 1855.

1436. AUGUSTE EDOUARD LORADOUX BELLFORD, of 32, Essex Street, Strand, London, Patent agent, for an invention for—"Improvements in breech loading fire-arms and cartridges relating thereto."—*A communication.* *Stopped at fiat.*

BELLFORD. 22nd June 1855.

1437. AUGUSTE EDOUARD LORADOUX BELLFORD, of 32, Essex Street, Strand, London, but now of Paris, Empire of France, for an invention for—"Improvements in pulverizing quartz mineral and other hard substances."—*A communication.* *Letters Patent sealed.*

ALLEYNE. STRAFFORD. 22nd June 1855.

1438. JOHN GAY NEWTON ALLEYNE, of Butterley Iron works, Alfreton, in the County of Derby, and HENRY STRAFFORD, of Codnor Park Iron works, Alfreton, in the County of Derby, for an invention for—"Improvements in railway breaks." *Letters Patent sealed.*

PENRICE. 22nd June 1855.

1439. HERBERT NEWTON PENRICE, of Woolwich, in the County of Kent, Captain Royal Engineers, for an invention for—"Improvements in machinery for propelling vessels." *Letters Patent sealed.*

SOREL. 23rd June 1855.

1440. STANISLAS TRANQUILLE MODESTE SOREL, of Paris, France, and of 4, South Street, Finsbury, London, Civil Engineer, for an invention for—"A machine for applying adhesive matters on stuffs, and also for applying on the said matters other substances or stuffs." *Letters Patent sealed.*

WALKER. 23rd June 1855.

1441. THOMAS WALKER, of Birmingham, in the County of Warwick, Engineer, for an invention for—"Improvements in projectiles for ordnance and other fire-arms." *Letters Patent sealed.*

MOWBRAY. 23rd June 1855.

1442. FREDERICK WILLIAM MOWBRAY, of Shipley, near Leeds, in the County of York, Engineer, for an invention for—"Improvements in looms for weaving." *Letters Patent sealed.*

PEARCE. 23rd June 1855.

1443. WILLIAM PEARCE, of the Poole Iron Foundry, Poole, in the County of Dorset, for an invention for—"Improvements in machinery for manufacturing certain articles of pottery, such as pipes, tiles, hollow bricks, and other like articles." *Letters Patent sealed.*

WHISH. 23rd June 1855.

1444. GEORGE WHISH, of Canada Works, Birkenhead, for an invention for—"Improvements in oscillating steam-engines." *Provisional protection only.*

SILBERMANN. 23rd June 1855.

1445. IGNACE JOSEPH SILBERMANN, of Paris, Empire of France, and of 32, Essex Street, Strand, London, for an invention for—"A new system of manufacturing globes and other printed, plane, or curve surfaces." *Letters Patent sealed.*

BELLFORD. 23rd June 1855.

1446. AUGUSTE EDOUARD LORADOUX BELLFORD, of 32, Essex Street, Strand, London, Patent agent, for an invention for—"Improvements in the manufacture of bats for felting, and in machinery for manufacturing the same."—*A communication.* *Letters Patent sealed.*

GEDGE. 25th June 1855.

1447. JOHN GEDGE, of No. 11, Wellington Street South, Strand, in the County of Middlesex, Patent agent, for an invention for—"Improvements in apparatus or mechanism for measuring liquids."—*A communication from Monsieur Adolphe Cheron, of Paris, in the Empire of France, Engineer.* *Stopped at fiat.*

YOUNG. 25th June 1855.

1448. JOHN YOUNG, of Linton, near Morebattle, Roxburghshire, Scotland, Blacksmith, for an invention for—"Improvements in and applicable to harrows." *Letters Patent sealed.*

HARRIS. 25th June 1855.

1449. JOSIAH HARRIS, of Clogwyn hyfryd, in the parish of Dolgelley, in the County of Merioneth, North Wales, for an invention for—"A machine and apparatus for crushing, pulverizing metals, metallic ores, metalliferous matters or substances whatever, and for obtaining, washing, dividing, amalgamating metals and other matters or substances contained therein."—*A communication.* *Provisional protection only.*

PAGE. 25th June 1855.

1450. JOHN PAGE, of the Town and County of Perth, North Britain, Civil Engineer, for an invention for—"Improvements in moulding or shaping metals." *Letters Patent sealed.*

SMITH. 25th June 1855.

1451. SYDNEY SMITH, of Hyson Green Works, near Nottingham, for an invention for—"Improvements in apparatus for insuring the correct action of the safety valves of steam-boilers, and for regulating the action of the dampers of steam-boilers." *Letters Patent sealed.*

POOLE. 25th June 1855.

1452. MOSES POOLE, of the Avenue Road, Regent's Park, in the County of Middlesex, for an invention for —" An improvement in sculpturing surfaces of marble and stone."—*A communication.* *Letters Patent sealed.*

PARSONS. 25th June 1855.

1453. PERCEVAL MOSES PARSONS, of Duke Street, Adelphi, in the County of Middlesex, Civil Engineer, for an invention for—" Certain improvements in moulds for casting metals." *Provisional protection only.*

BELLFORD. 26th June 1855.

1454. AUGUSTE EDOUARD LORADOUX BELLFORD, of 32, Essex Street, Strand, London, Patent agent, for an invention for—" Certain improvements in rotary blowing-machines, which are also applicable to rotary pumps, to rotary engines to be driven by steam or other fluids, and to meters for measuring the flow of fluid bodies."—*A communication.* *Letters Patent sealed.*

SHARP. YORSTON. 26th June 1855.

1455. THOMAS BEATT SHARP, of the City of Manchester, Engineer, and ALEXANDER YORSTON, of Belfast, in the County of Antrim, in Ireland, Engineer, for an invention for —" Improvements in the arrangement and construction of furnaces or fire-places." *Letters Patent sealed.*

LEISS. SCHNEIDER. 26th June 1855.

1456. FREDERICK LEISS, and CHARLES SCHNEIDER, of Hesse Darmstadt, Germany, now residing at No. 65, Princes Street, Leicester Square, Middlesex, for an invention for—" Manufacturing 'Mica letters,' numerals, shop signs, figures, arms, devices, and ornaments." *Letters Patent sealed.*

RONALD. 26th June 1855.

1457. JAMES RONALD, of No. 18, James Street, Liverpool, in the County of Lancaster, for an invention for—" Certain improvements in machinery for dressing Manilla and other hemps and flax." *Letters Patent sealed.*

POOLE. 26th June 1855.

1458. MOSES POOLE, of Avenue Road, Regent's Park, for an invention for—" An improvement in the manufacture of printing rollers or cylinders."—*A communication.* *Letters Patent sealed.*

BONNET. 26th June 1855.

1459. BENOIT BONNET, of Rue des Couronnes, Belleville, near Paris, in the Empire of France, Lace manufacturer, for an invention for—" Improvements in weaving." *Letters Patent sealed.*

VENNIN-DERÍGNIAUX. 26th June 1855.

1460. FRANÇOIS VENNIN-DERÉGNIAUX, of Lille, in the Empire of France, Machine maker, for an invention for —" Improvements in the construction of spinning machinery." *Letters Patent sealed.*

POUILLET. 26th June 1855.

1461. CHARLES MARIE POUILLET, Civil Engineer, of Paris, in the French Empire, for an invention for—" Certain improvements in railways."—*Provisional protection only.*

BUCKNALL. 26th June 1855.

1462. JOSEPH JOHN BUCKNALL, of Liverpool, in the County of Lancaster, Gentleman, for an invention for—" Improvements in the manufacture of hats and caps, and the employment of certain tools for producing the same." *Provisional protection only.*

RAUX. PORET. 26th June 1855.

1463. FELIX RAUX, and LOUIS PORET, Merchants, both of Paris, in the Empire of France, and of 4, South Street, Finsbury, London, for an invention for—" Improvements in the preparation of artificial mineral waters." *Provisional protection only.*

CLEMENTS. 26th June 1855.

1464. JAMES MOORE CLEMENTS, of Great Hampton Street, Birmingham, in the County of Warwick, Tailor and Draper, for an invention for—" Certain improvements in pockets with spring lock fastening, applicable to male and female attire, as also as a fastening for bags, reticules, purses, or similar articles." *Provisional protection only.*

DISTIN. 26th June 1855.

1465. HENRY JOHN DISTIN, of No. 31, Cranbourne Street, in the County of Middlesex, Musical Instrument maker, for an invention for—" Improvements in the means of rendering the ordinary field or regulation bugle chromatic."—*Letters Patent sealed.*

RUSSELL. 27th June 1855.

1466. FREDERICK RUSSELL, Mechanic, of 13, Cumberland Market, Regent's Park, in the County of Middlesex, for an invention for —" An improved mode of hanging windows and shutters." *Provisional protection only.*

SWINBURNE. 27th June 1855.

1467. THOMAS SWINBURNE, of South Square, Gray's Inn, in the County of Middlesex, Barrister at Law, for an invention for—"Improvements in machinery for applying and obtaining motive-power, applicable but not exclusively so in the propulsion of vessels and railway trains." *Letters Patent sealed.*

BUHLER. 27th June 1855.

1468. DENIS DANIEL BUHLER, of Paris, in the Empire of France, and 4, South Street, Finsbury, London, for an invention for—"Certain improvements in the construction of fencings." *Letters Patent sealed.*

LUCAS. 27th June 1855.

1469. THOMAS LUCAS, of Duston, in the County of Northampton, for an invention for—"Improvements in the manufacture of iron." *Provisional protection only.*

MARGUERITTE. 27th June 1855.

1470. LOUIS JOSEPH FRÉDÉRIC MARGUERITTE, Chemist, of Paris, in the Empire of France, and of 32, Essex Street, Strand, London, for an invention for—"Improvements in the manufacture of glass and crystal." *Letters Patent sealed.*

WALKER. 28th June 1855.

1471. HENRY WALKER, of Sambourne, in the parish of Coughton, in the County of Warwick, for an invention for—"Improvements in ploughs for ploughing or tilling land." *Letters Patent sealed.*

RAYWOOD. 28th June 1855.

1472. JOHN RAYWOOD, Engineer, of Wentworth, in the County of York, for an invention for—"An improved method of stopping railway trains."—*Letters Patent sealed.*

MOREAU-DARLUC. 28th June 1855.

1473. CHARLES MOREAU-DARLUC, of Paris (France), Gentleman, for an invention for—"An improved mode of separating substances of different nature or composition, by means of displacement and substitution." *Letters Patent sealed.*

SYMONS. 28th June 1855.

1474. CHRISTOPHER JELINGER SYMONS, of Hereford, in the County of Hereford, Captain in the Bombay Army, for an invention for—"Certain improvements in steam-engines." *Letters Patent sealed.*

DAVEY. 28th June 1855.

1475. SIMON DAVEY, of Tucking Mill, in the parish of Illogen, in the County of Cornwall, Safety fuze manufacturer, for an invention for—"An improvement in the manufacture of safety fuzes for mining and military purposes."—*Letters Patent sealed.*

ENGSTRÖM. 28th June 1855.

1476. CARL CHRISTIAN ENGSTRÖM, Lieutenant Royal Swedish Navy, of 18, Buckingham Street, Strand, for an invention for—"Improvements in breech loading ordnance and the balls or projectiles thrown by cannon." *Letters Patent sealed.*

LILLEY. 28th June 1855.

1477. GEORGE LILLEY, of Islington, in the County of Middlesex, Engineer, for an invention for—"An improvement in water-meters." *Stopped at fiat.*

BESLEY. 28th June 1855.

1478. ROBERT BESLEY, of Fann Street, Aldersgate Street, in the City of London, Type founder, for an invention for—"An improved manufacture of metallic alloy applicable to the casting of type and other articles."—*A communication.* *Letters Patent sealed.*

SKELLEY. 28th June 1855.

1479. JOHN SKELLEY, of Kilcurry, in the County of Longford, Ireland, for an invention for—"Improvements in the construction of carriage wheels." *Letters Patent sealed.*

BELLFORD. 28th June 1855.

1480. AUGUSTE EDOUARD LORADOUX BELLFORD, of 32, Essex Street, Strand, London, Patent agent, for an invention for—"Improvements in manufacturing lighting and heating gases."—*A communication.* *Letters Patent sealed.*

FONTAINEMOREAU. 29th June 1855.

1481. PETER ARMAND LE COMTE DE FONTAINEMOREAU, of No. 4, South Street, Finsbury, London, and 39, Rue de l'Echiquier, Paris, Patent agent, for an invention for—"Improvements in axle-boxes or plummer blocks."—*A communication.* *Stopped at fiat.*

BUSSON. 29th June 1855.

1482. CLAUDE ANTOINE BUSSON, of Paris, France, Engineer, for an invention for—"An improved mode of constructing and fixing the teeth of toothed cylinders employed in the treatment of textile or fibrous materials." *Stopped at fiat.*

HUGHES. 29th June 1855.

1483. EDWARD JOSEPH HUGHES, of the City of Manchester, in the County of Lancaster, Patent agent, for an invention for—"An improved method of concentrating the colouring matter of madder, munjeet, spent madder, or any preparations thereof." *Letters Patent sealed.*

DE LORENZI. 29th June 1855.

1484. JEAN BAPTISTE DE LORENZI, of Paris, in the Empire of France, and 4, South Street, Finsbury, London, for an invention for—"Certain improvements in the construction of organs." *Letters Patent sealed.*

DEMBINSKI. 29th June 1855.

1485. HENRI DEMBINSKI, General, of Rue Joubert, 8, in the City of Paris, in the Empire of France, for an invention for—"Improvements in the process and apparatus for generating steam without combustible matter except in accidental cases." *Letters Patent sealed.*

ECCLES. 29th June 1855.

1486. JOSEPH ECCLES, of Blackburn, in the County of Lancaster, Cotton spinner, for an invention for—"Improvements in the manufacture of bricks, tiles, and other articles made of plastic materials, and in machinery and arrangements or apparatus to be used for the purpose." *Letters Patent sealed.*

BROADBENT. YOULE. 29th June 1855.

1487. JOHN BROADBENT, of Manchester, in the County of Lancaster, Merchant, and STANLEY PETER YOULE, of the same place, Gentleman, for an invention for—"Improvements in machinery or apparatus for cutting out the gores of umbrellas and parasols, which said improvements are also applicable to cutting out forms or shapes for other purposes." *Letters Patent sealed; no specification filed.*

HEAPS. 29th June 1855.

1488. WILLIAM HEAPS, of Forton, in the County of Lancaster, Smith, for an invention for—"Improvements in machinery or apparatus for working or cultivating land." *Provisional protection only.*

WEEMS. 29th June 1855.

1489. JOHN WEEMS, of Johnstone, in the County of Renfrew, North Britain, Tinsmith, for an invention for—"Improvements in drying grain and other substances." *Letters Patent sealed.*

WOODCOCK. 30th June 1855.

1490. WILLIAM WOODCOCK, of Hulme, in the City of Manchester, Engineer, for an invention for—"Improvements in machinery for making bricks and other articles of plastic materials." *Letters Patent sealed.*

BARLING. 30th June 1855.

1491. THOMAS BARLING, of Weymouth, in the County of Dorset, Druggist, for an invention for—"Improvements in steam-engine boiler and other furnaces." *Letters Patent sealed.*

JOHNSON. 30th June 1855.

1492. WILLIAM JOHNSON, of 47, Lincoln's Inn Fields, in the County of Middlesex, and of Glasgow, in the County of Lanark, North Britain, Civil Engineer, for an invention for—"Improvements in the manufacture or production of manures."—*A communication.* *Provisional protection only.*

BIRCH. 30th June 1855.

1493. JOHN BIRCH, of Bradford, in the County of York, Furnace manager, for an invention for—"Improvements in the manufacture of iron." *Letters Patent sealed.*

TOOTH. 2nd July 1855.

1494. WILLIAM HENRY TOOTH, of No. 4, South Street, in the parish of Southwark, in the County of Surrey, Engineer, for an invention for—"Certain improvements in the machinery for and in the manufacture of earthenware and plastic articles, and in the preparation of clays and other materials." *Letters Patent sealed.*

MIGNON. 2nd July 1855.

1495. JOSEPH AUGUST MIGNON, Lithographer and Draughtsman, of Rue des Postes, No. 4, in the City of Paris, in the Empire of France, for an invention for—"Improvements in maps, charts, plans, tables &c. of great dimensions, to render them more portable and useful." *Provisional protection only.*

LYCETT. 2nd July 1855.

1496. FRANCIS LYCETT, of the firm of Dent, Allcroft and Company, of Wood Street, in the City of London, Manufacturers, for an invention for—"An improved glove, together with the means of manufacturing the same." *Letters Patent sealed.*

KNAPTON. 2nd July 1855.

1497. WILLIAM KNAPTON, of Albion Foundry, York, Engineer, for an invention for—"Improvements in furnaces for effecting the consumption of smoke." *Stopped at fiat.*

HAMMANT. 3rd July 1855.

1498. WILLIAM HAMMANT, of No. 1, Standfield Street, Stepney, in the County of Middlesex, Cabinet maker, for an invention for—"A new apparatus for condensing smoke." *Provisional protection only.*

MUCKELT. 3rd July 1855.

1499. ROBERT MUCKELT, of Salford, in the County of Lancaster, Engraver, for an invention for—"Improvements in machinery for etching or engraving designs on cylindrical or other surfaces." *Letters Patent sealed.*

GUILLAUME. 4th July 1855.

1500. GEORGE GUILLAUME, of No. 81, Marland Place, Southampton, Architect, for an invention for—"Certain improvements in machinery for communicating power to the wheel or axle of steam or other engines, or for carriages to be propelled by hand or foot." *Letters Patent sealed.*

TABOURIN. 4th July 1855.

1501. GEORGES ANTOINE TABOURIN, of Lyons, in the Empire of France, Student, for an invention for—"A new system of metallic arch proper for the construction of bridges, arcades, vaults, roofs, and all other such purposes." *Letters Patent sealed.*

TIDMARSH. 4th July 1855.

1502. RICHARD TIDMARSH, of Foxley House, 23, Foxley Road, Camberwell New Road, in the County of Surrey, Engineer, for an invention for—"An improved apparatus for lubricating metallic and other surfaces when in motion."—*Letters Patent sealed.*

CLAY. 4th July 1855.

1503. WILLIAM CLAY, of Liverpool, in the County of Lancaster, Iron merchant, for an invention for—"An improved mode of manufacturing forged iron." *Letters Patent sealed.*

HIDE. 4th July 1855.

1504. CHARLES HIDE, of Worthing, in the County of Sussex, for an invention for—"Improvements in connecting earthenware pipes or tubes."—*Provisional protection only.*

INGLIS. COWIE. 4th July 1855.

1505. JOHN INGLIS, of Glasgow, in the County of Lanark, North Britain, Iron founder, and ARCHIBALD COWIE, of the same place, Pattern maker, for an invention for—"Improvements in moulding or shaping metals." *Letters Patent sealed.*

FLAGG. 5th July 1855.

1506. SAMUEL GRISWOLD FLAGG, of Philadelphia, in the United States of America, but now of 17, Cornhill, London, for an invention for—"An improved folding boat."—*A communication from Abijah R. Tewksbury, of Boston, in the United States of America.* *Provisional protection only.*

CONNOR. 5th July 1855.

1507. JAMES CONNOR, of Coventry, in the County of Warwick, Carver and Gilder, for an invention for—"Improvements in apparatus for communicating between the engine drivers and the guards of railway trains." *Letters Patent sealed.*

GERHARDI. 5th July 1855.

1508. WILLIAM GERHARDI, of the City of Manchester, Mechanic, for an invention for—"Improvements in safety valves, and apparatus for regulating the pressure of steam and the quantity of water in steam-boilers." *Provisional protection only.*

ODDY. 5th July 1855.

1509. SAMUEL ODDY, of the firm of Oddy, Thompson, and Oldfield, of the Adelphi Iron works, Salford, in the County of Lancaster, Machine makers, for an invention for—"Improvements in constructing and lubricating the bearings of mule spindles." *Letters Patent sealed.*

HORTON. HORTON. 5th July 1855.

1510. JOSEPH HORTON, of Birmingham, in the County of Warwick, Manufacturer, and THOMAS HORTON, of Birmingham aforesaid, Manufacturer, for an invention for—"A new or improved manufacture of paper, pasteboard, and pulp." *Letters Patent sealed.*

HOWARD. 5th July 1855.

1511. JAMES HOWARD, of Bedford, Ironfounder, for an invention for—"Improvements in the construction of ploughs." *Provisional protection only.*

FELTON. 5th July 1855.

1512. THOMAS FELTON, of Edgbaston Street, Birmingham, in the County of Warwick, Glass chandelier and lustre manufacturer, for an invention for—"Improvements in glass reflectors for gas and other artificial lights."—*Provisional protection only.*

BROOMAN. 5th July 1855.

1513. RICHARD ARCHIBALD BROOMAN, of 166, Fleet Street, in the City of London, Patent agent, for an invention for—"Improvements in the manufacture of figured net and other like open fabrics."—*A communication.* *Letters Patent sealed.*

ASBURY. 6th July 1855.

1514. JACOB VALE ASBURY, of Enfield, in the County of Middlesex, Surgeon, for an invention for—"Improvements in apparatus for neutralizing the effect of collision or impaction in railway trains, stations, and other similar situations."—*Stopped at fiat.*

BULLOUGH. WILLAN. WALMSLEY. 6th July 1855.

1515. JAMES BULLOUGH, of Accrington, ROBERT WILLAN, of Blackburn, and JOHN WALMSLEY, of Accrington, all in the County of Lancaster, for an invention for—"Improvements in machinery or apparatus for warping by power." *Letters Patent sealed.*

BELLAY. 6th July 1855. — 1516. JULIEN ARNOLD BELLAY, Manufacturer, of Paris, in the French Empire, for an invention for—"Improvements in manufacturing articles of earthenware and china." *Letters Patent sealed.*

BALK. 6th July 1855. — 1517. WILLIAM BALK, of Ipswich, in the County of Suffolk, Engineer, for an invention for—"Improvements in the construction and combination of parts of portable steam-engines." *Provisional protection only.*

DURANT. 6th July 1855. — 1518. ANGUISH HONOUR AUGUSTUS DURANT, of Tong Castle, Salop, Esquire, for an invention for—"An improvement in extracting castor oil."—*Letters Patent sealed.*

MORRIS. MORRIS. CHRIMES. ESKHOLME. 6th July 1855. — 1519. WILLIAM RICHARD MORRIS, and WILLIAM MORRIS, of Deptford, in the County of Kent, Engineers, and RICHARD CHRIMES, and GEORGE ESKHOLME, of Rotherham, in the County of York, Brassfounders, for an invention for—"Improvements in the construction and arrangement of apparatus for preventing the waste of water from service pipes or cisterns." *Letters Patent sealed.*

BECKETT. SEED. 6th July 1855. — 1520. JAMES BECKETT, of Preston, in the County of Lancaster, Overlooker, and WILLIAM SEED, of the same place, Machine maker, for an invention for—"Improvements in machinery for spinning cotton and other fibrous substances." *Letters Patent sealed.*

BOYES. 6th July 1855. — 1521. WILLIAM BOYES, of Preston, in the County of Lancaster, Manufacturer, for an invention for—"Improvements in looms for weaving."—*Provisional protection only.*

GEDGE. 7th July 1855. — 1522. JOHN GEDGE, of No. 4, Wellington Street South, Strand, in the County of Middlesex, Patent agent, for an invention for—"Improvements in aërated waters."—*A communication from C. P. Guettier, of Mans, in the Empire of France, Chemist.* *Letters Patent sealed.*

GEDGE. 7th July 1855. — 1523. JOHN GEDGE, of No. 4, Wellington Street South, Strand, in the County of Middlesex, Patent agent, for an invention for—"Improvements in photographic glasses."—*A communication from Louis Samson, of Paris, in the Empire of France.* *Provisional protection only.*

NEALE. 7th July 1855. — 1524. EDWARD VANSITTART NEALE, of 4, Russell Place, Fitzroy Square, in the County of Middlesex, Esquire, for an invention for—"Improvements in the application of vitreous substances to the manufacture of labels, tablets, finger-plates, tiles, and other architectural decorations." *Provisional protection only.*

PYM. 7th July 1855. — 1525. JOHN PYM, of Stanley Street, Pimlico, in the County of Middlesex, Engineer, for an invention for—"A new combination of materials suitable for building purposes." *Provisional protection only.*

YATES. 7th July 1855. — 1526. EDWIN YATES, of Birmingham, in the County of Warwick, Manufacturer, for an invention for—"A new or improved dinner and dessert fork." *Provisional protection only.*

WERNER. PIGLHEIN. 7th July 1855. — 1527. CHRISTIAN FRIEDRICH WERNER, and LOUDOVICUS PIGLHEIN, in firm of C. F. Werner and L. Piglhein, of Hamburg, Manufacturers of furniture, for an invention for—"An improved manufacture of elastic tufting for chairs, couches, and other articles requiring the same." *Letters Patent sealed.*

WHITE. 7th July 1855. — 1528. ALEXANDER WHITE, of Glasgow, in the County of Lanark, North Britain, Miller, for an invention for—"Improvements in grinding or reducing grain and other substances." *Letters Patent sealed.*

BURROWS. 7th July 1855. — 1529. EZRA WASHINGTON BURROWS, of Clerkenwell, in the County of Middlesex, Civil Engineer, for an invention for—"Improvements in machinery adapted for increasing the efficiency of steam-engine and other power." *Stopped at fiat.*

ROBERTS. COPPOCK. 9th July 1855. — 1530. RICHARD ROBERTS, of Heaton Norris, in the County of Lancaster, Machine maker, and GEORGE COPPOCK, of the same place, Manager, for an invention for—"Certain improvements in looms for weaving." *Letters Patent sealed.*

FLYNN. 9th July 1855. — 1531. HENRY EDWARD FLYNN, of Retreat, Ranelagh, in the County of Dublin, for an invention for—"Improvements in preventing fire from the overheating of hot air flues." *Provisional protection only.*

PROPHET. 9th July 1855.

1532. JOHN PROPHET, of Broughton Ferry, in the County of Forfar, North Britain, Confectioner, for an invention for—"Improvements in the manufacture or production of confectionary." *Provisional protection only.*

TETLOW. 9th July 1855.

1533. JAMES TETLOW, of Oldham, in the County of Lancaster, Cotton spinner and manufacturer, for an invention for—"Certain improvements in machinery or apparatus for spinning cotton and other fibrous materials." *Provisional protection only.*

CROSLEY. 9th July 1855.

1534. HENRY CROSLEY, of the Grove, Camberwell, in the County of Surrey, Civil Engineer, for an invention for—"Improvements in projectiles and the manufacture thereof, for ordnance, cannon, rifles, muskets, and all descriptions of small arms, and also in the mode or modes of loading, using, and working the same." *Letters Patent sealed.*

NEWTON. 9th July 1855.

1535. ALFRED VINCENT NEWTON, of the Office for Patents; 66, Chancery Lane, in the County of Middlesex, Mechanical Draughtsman, for an invention for—"A new manufacture of fire and burglar proof glass."—*A communication.* *Letters Patent sealed.*

SEITHEN. SEITHEN. 9th July 1855.

1536. JOHN and ANTON BRUNO SEITHEN, of Regent's Square, in the County of Middlesex, for an invention for—"Improvements in machinery for cutting and shaping cork." *Letters Patent sealed.*

LORET-VERMEERSCH. 10th July 1855.

1537. FRANÇOIS LORET-VERMEERSCH, in Malines, Kingdom of Belgium, for an invention for—"The improvement of looms for weaving." *Letters Patent sealed.*

RILEY. 10th July 1855.

1538. GEORGE RILEY, of No. 12, Portland Place North, Clapham Road, in the County of Surrey, for an invention for—"An improvement in the construction of mills for grinding malt and other articles." *Provisional protection only.*

PALMER. 10th July 1855.

1539. JAMES PALMER, of Oldham, in the County of Lancaster, Manager, for an invention for—"Improvements in machinery for carding cotton and other fibrous substances." *Letters Patent sealed.*

KOPP. 10th July 1855.

1540. EMILE KOPP, of Accrington, in the County of Lancaster, Chymist, for an invention for—"Improvements in mordants used in printing and dyeing." *Letters Patent sealed.*

BROOMAN. 10th July 1855.

1541. RICHARD ARCHIBALD BROOMAN, of 166, Fleet Street, in the City of London, Patent agent, for an invention for—"An improved means of securing wheels upon axles."—*A communication.* *Letters Patent sealed.*

FLYNN. 10th July 1855.

1542. HENRY EDWARD FLYNN, of Retreat, Ranelagh, in the County of Dublin, Gentleman, for an invention for—"Improvements in preventing the evil effects of the recoil of cannon." *Provisional protection only.*

ELKINGTON. 10th July 1855.

1543. CHARLES JAMES CHEATLEY ELKINGTON, of Hall Street, City Road, in the County of Middlesex, Electro Metallurgical Artist, for an invention for—"Improvements in depositing alloys of metal." *Stopped at fiat.*

PRATT. 11th July 1855.

1544. HENRY PRATT, of the City of Worcester, Engineer, for an invention for—"Certain improvements in steam flour mills, windmills, and water mills, parts of which are also applicable for other useful purposes."—*Partly a communication from Edward Harrison, of Connecticut, in the United States of America.* *Letters Patent sealed.*

JOHNSON. 11th July 1855.

1545. JOHN HENRY JOHNSON, of 47, Lincoln's Inn Fields, in the County of Middlesex, and of Glasgow, North Britain, Gentleman, for an invention for—"Improvements in apparatus or means for facilitating the performance of Church and other music, on organs, harmoniums, pianos, and other similar keyed musical instruments."—*A communication from François Guichené.* *Provisional protection only.*

JOHNSON. 11th July 1855.

1546. JOHN HENRY JOHNSON, of 47, Lincoln's Inn Fields, in the County of Middlesex, and of Glasgow, North Britain, Gentleman, for an invention for—"Improvements in the permanent way of railways, and in carriages to be used in connection therewith, or on common roads."—*A communication from Pierre Joseph Bertrand Geoffrey, of Dax, in the Empire of France, Manufacturer.* *Provisional protection only.*

NALDER. 11th July 1855.

1547. JAMES HALL NALDER, of Alvescott, in the County of Oxford, Farmer, for an invention for—"Improvements in winnowing or dressing grain and seeds." *Letters Patent sealed.*

WILSON. 11th July 1855.

1548. JOSEPH WILSON, of Manningham, near Bradford, in the County of York, Builder, for an invention for—"Improvements in means or apparatus for the manufacture of rolling or piece boards used in rolling or wrapping piece goods." *Letters Patent sealed.*

HART. 11th July 1855.

1549. EDMUND HART, of Nottingham, Lace manufacturer, for an invention for—"Improvements in the manufacture of lace." *Letters Patent sealed.*

COULSON. 11th July 1855.

1550. JOHN COULSON, of Penzance, in the County of Cornwall, Merchant, for an invention for—"Improvements in apparatus for ventilating mines, which improvements are also applicable to other purposes where ventilation is required." *Letters Patent sealed.*

JEFFREYS. 11th July 1855.

1551. JULIUS JEFFREYS, of Kingston Hill, in the County of Surrey, for an invention for—"Improvements in sun blinds or solar screens." *Letters Patent sealed.*

TREEBY. 11th July 1855.

1552. THOMAS WRIGHT GARDENER TREEBY, of Westbourne Terrace Villa, Westbourne Terrace North, Paddington, for an invention for—"Improvements in revolving fire-arms and cannon." *Letters Patent sealed.*

JEFFREYS. 11th July 1855.

1553. JULIUS JEFFREYS, of Kingston Hill, in the County of Surrey, for an invention for—"Improvements in steam-boilers." *Letters Patent sealed.*

ADAMS. 11th July 1855.

1554. JOHN ADAMS, of Aldwincle, in the County of Northampton, Gentleman, for an invention for—"Improvements for indicating the time when persons commence and leave their work or calling." *Letters Patent sealed.*

BIELEFELD. 11th July 1855.

1555. CHARLES FREDERICK BIELEFELD, of Wellington Street, Strand, Papier-mâché manufacturer, for an invention for—"Improvements in the manufacture of saddle-trees." *Letters Patent sealed.*

WILLIAMS. 11th July 1855.

1556. WILLIAM WILLIAMS, of Bedford, Iron founder, for an invention for—"Improvements in the manufacture of bricks, pipes, and tiles."—*Letters Patent sealed.*

GREENING. 12th July 1855.

1557. BENJAMIN GREENING, of the City of Manchester, Wire worker and machine maker, for an invention for—"Improvements in machinery for washing and mangling, parts of which are applicable to churning." *Letters Patent sealed.*

ROBINSON. WEDDING. 12th July 1855.

1558. JOHN ROBINSON, of the firm of Sharp, Steward, and Company, of the City of Manchester, Engineers, and WILLIAM WEDDING, of the same place, Mechanical Draughtsman, for an invention for—"Improvements in machinery for cutting paper, card-board, and other materials." *Letters Patent sealed.*

BETHELL. 12th July 1855.

1559. JOHN BETHELL, of No. 8, Parliament Street, Westminster, Gentleman, for an invention for—"Improvements in preserving meat, fish, fruits, and other eatables from decay, and for the purpose of their being used as provisions."—*Letters Patent sealed.*

EDWARDS. 12th July 1855.

1560. FREDERIC HOWORTH EDWARDS, of Newcastle-upon-Tyne, in the County of Northumberland, Civil Engineer, for an invention for—"Improvements in obtaining motive-power from fuel, air, and water." *Letters Patent sealed.*

CHATTAWAY. 12th July 1855.

1561. EDWIN DANIEL CHATTAWAY, of Edinburgh, in the County of Mid-Lothian, North Britain, Engineer, for an invention for—"Improvements in buffing and coupling apparatus for railway carriages and rolling stock."—*Letters Patent sealed.*

CALDOW. M'KINNELL. 12th July 1855.

1562. JAMES CALDOW, and JAMES BAINDEN AFFLECK M'KINNELL, both of the Palmerstone Iron works, Dumfries, situated in the parish of Troqueer, and County of Kirkcudbright, North Britain, Machinists, for an invention for—"Improvements in machinery or apparatus for cutting or reducing vegetable substances."—*Letters Patent sealed.*

SIMONS. 12th July 1855.

1563. EDWARD SIMONS, of Birmingham, in the County of Warwick, Manufacturer, for an invention for—"A new or improved instrument or apparatus to be used for condensing and absorbing the smoke and products of combustion arising from gas and other flames, and increasing the illuminating power of the said flames." *Letters Patent sealed.*

WESTON. LEWIS. 12th July 1855.

1564. JOHN HENRY WESTON, of Cross Street, Newington Butts, in the County of Surrey, Gas fitter, and JOHN EDMUND LEWIS, of Nicholas Street, New North Road, in the County of Middlesex, Brass finisher, for an invention for—"Improvements in the construction of moderator lamps." *Provisional protection only.*

OBISSIER. 12th July 1855.

1565. ROMAIN DENIS OBISSIER, of Rue St. François, Bordeaux, in the Empire of France, Engineer, for an invention for—"Improvements in obtaining motive-power by hydraulic means." *Letters Patent sealed.*

TUCK. 13th July 1855.

1566. JOSEPH HENRY TUCK, of Pall Mall, in the County of Middlesex, Civil Engineer, for an invention for—"Improvements in apparatus for condensing or exhausting atmospheric air or other elastic fluids."—*A communication.* *Letters Patent sealed.*

BYRNE. 13th July 1855.

1567. CHARLES BYRNE, of the City of Dublin, Fish Dealer, for an invention for—"A preparation of a certain kind of fish, combined with pepper, wine, and other condiments, which preparation may be used for sandwiches."—*Complete specification.* *Letters Patent sealed.*

REDMAYNE. 13th July 1855.

1568. THOMAS REDMAYNE, of Rotherham, in the County of York, Iron founder, for an invention for—"Improvements in stove grates." *Letters Patent sealed.*

HIGGIN. 13th July 1855.

1569. JAMES HIGGIN, of Manchester, in the County of Lancaster, Manufacturing Chemist, for an invention for—"Improvements in clearing and brightening dyed and printed fabrics." *Provisional protection only.*

LISTER. 13th July 1855.

1570. SAMUEL CUNLIFFE LISTER, of Bradford, in the County of York, for an invention for—"Improvements in weaving looped or pile fabrics."—*Letters Patent sealed.*

BOUSFIELD. 13th July 1855.

1571. GEORGE TOMLINSON BOUSFIELD, of Sussex Place, Loughborough Road, Brixton, in the County of Surrey, for an invention for—"Improvements in the manufacture of boots and shoes."—*A communication.* *Letters Patent sealed.*

COCHRAN. 13th July 1855.

1572. ROBERT COCHRAN, of Verreville Pottery, Glasgow, for an invention for—"An improvement in the preparation of clay for potters' use." *Letters Patent sealed.*

HORNSBY. 13th July 1855.

1573. RICHARD HORNSBY, of Spittlegate Iron works, Grantham, in the County of Lincoln, for an invention for—"Improvements in thrashing-machines." *Letters Patent sealed.*

GILLET. 13th July 1855.

1574. EUGENE GILLET, of Rue des Aperonniers, 65, Bruxelles, for an invention for—"Improvements in fixing artificial teeth." *Letters Patent sealed; no specification filed.*

LAWTON. SCHOFIELD. 13th July 1855.

1575. MAJOR LAWTON, of Micklehurst, in the County of Chester, Book keeper, and THOMAS SCHOFIELD, of the same place, Cotton spinner, for an invention for—"Improvements in machinery or apparatus for preparing, spinning, winding, and doubling cotton or other fibrous substances." *Provisional protection only.*

BROOMAN. 13th July 1855.

1576. RICHARD ARCHIBALD BROOMAN, of 166, Fleet Street, in the City of London, Patent agent, for an invention for—"An improvement in pumps."—*A communication.* *Provisional protection only.*

YEATES. 13th July 1855.

1577. ROBERT YEATES, of Trafalgar Place West, Hackney Road, in the County of Middlesex, Cutler and Surgical instrument maker, for an invention for—"Improvements applicable to the instruments termed 'lock knives' and 'lever knives,' part of said improvements being applicable also to such surgical and other instruments as may be connected to handles by moving joints." *Letters Patent sealed.*

KOCH. 13th July 1855.

1578. LOUIS KOCH, of New York, in the County and State of New York, in the United States of America, Engineer, for an invention for—"An improvement in machines for making pulp from wood and vegetable fibrous substances." *Letters Patent sealed.*

BURNS. 13th July 1855.

1579. ROBERT BURNS, of Liverpool, in the County of Lancaster, Engineer, for an invention for—"Improved teethed gear." *Provisional protection only.*

GRAFTON. 13th July 1855.

1580. HENRY GRAFTON, of Rolles Buildings, Fetter Lane, in the County of Middlesex, for an invention for—"Improvements in the manufacture of fire-lighters, which are also applicable for other burning purposes." *Stopped at fiat.*

GAUDIN. 13th July 1855.

1581. PIERRE IGNACE ALEXIS GAUDIN, of Skinner Street, Snow Hill, in the City of London, for an invention for—"Improvements in baths used for photographic purposes." *Provisional protection only.*

NEALE. 13th July 1855.

1582. CHARLES LANCHESTER NEALE, of 1, Chapel Place, Cavendish Square, London, for an invention for—"A new medicinal lotion to be called 'The Crimean Neuralgic Specific.'" *Provisional protection only.*

POLIESSE. LENGELÉE. 13th July 1855.

1583. LOUIS CONSTANT JOSEPH POLIESSE, Junior, and CHARLES AUGUSTE JOSEPH LENGELÉE, of Ham, in the Empire of France, and of 32, Essex Street (Strand), London, for an invention for—"Improvements in the manufacture of encaustic matters." *Letters Patent sealed.*

DERRIEIJ. 14th July 1855.

1584. JOSEPH JULES DERRIEIJ, Mechanician, of Paris (France), for an invention for—"Improvements in machines for manufacturing lozenges, wafers, or pastiles, of pasty materials." *Provisional protection only.*

HAMILTON. 14th July 1855.

1585. FRANCIS HAMILTON, of Bolton-le-Moors, in the County of Lancaster, Foreman, for an invention for—"Improvements in adjusting the top cards or flats of certain carding-engines." *Letters Patent sealed.*

SADLEIR. 14th July 1855.

1586. THOMAS SADLEIR, of Mulla Tullamore, King's County, Esquire, for an invention for—"An improvement in apparatus for heating liquids."—*Letters Patent sealed.*

BURKE. 14th July 1855.

1587. FRANCIS BURKE, of Woodlands, Montserrat, British West Indies, at present residing in London, Gentleman, for an invention for—"Improvements in obtaining or preparing the fibres of the plantain, banana, aloe, and other vegetables, for various manufacturing purposes." *Letters Patent sealed.*

ATKINSON. 14th July 1855.

1588. EDWIN SENIOR ATKINSON, of Knottingley, in the County of York, Manufacturing Chemist, for an invention for—"Apparatus for condensing or absorbing muriatic acid gas from the furnaces of kilns used in the manufacture of sulphate of soda." *Letters Patent sealed.*

KEALY. 14th July 1855.

1589. JOHN FOLEY KEALY, of Oxford Street, in the County of Middlesex, Agricultural implement maker, for an invention for—"Improved machinery for the pulping of turnips and other vegetable substances." *Provisional protection only.*

TAYLER. 16th July 1855.

1590. WILLIAM HENRY TAYLER, of 19, South Row, New Road, St. Pancras, Middlesex, London, for an invention for—"Improvements in hermetically sealing preserve canisters and other vessels, by means of a new arranged screw cap and fittings."—*A communication.* *Letters Patent sealed.*

REGAZZOLI. 16th July 1855.

1591. ANTOINE REGAZZOLI, of the City of Milan, in Lombardy, for an invention for—"Impelling railway carriages up ascents."—*A communication from Dr. Joseph Grossi, also of the City of Milan.* *Letters Patent sealed.*

GAVIOLI. 16th July 1855.

1592. LUDOVICO GAVIOLI, Professor of mechanics, of Modena, and of 32, Essex Street, Strand, London, for an invention for—"A new or improved musical instrument called Clavi-accord." *Letters Patent sealed.*

PASCAL. 16th July 1855.

1593. JEAN BAPTISTE PASCAL, of Lyons, in the Empire of France, and of 32, Essex Street, Strand, London, for an invention for—"Certain improvements in obtaining motive-power." *Letters Patent sealed.*

TUCK. 16th July 1855.

1594. JOSEPH HENRY TUCK, of Pall Mall, in the County of Middlesex, Civil Engineer, for an invention for—"Improvements in blowing-apparatus and other apparatus and engines in which air and other elastic fluids are used."—*A communication.* *Letters Patent sealed.*

NEWMAN. WHITTLE. 16th July 1855.

1595. JAMES NEWMAN, of Birmingham, in the County of Warwick, Manufacturer, and WILLIAM WHITTLE, of Smethwick, in the County of Stafford, Engineer, for an invention for—"Improvements in the manufacture of axles." *Letters Patent sealed.*

NEWTON. 16th July 1855.

1596. WILLIAM EDWARD NEWTON, of the Office for Patents, 66, Chancery Lane, in the County of Middlesex, Civil Engineer, for an invention for—"Improvements in vices."—*A communication.* *Letters Patent sealed; no specification filed.*

NEWTON. 16th July 1855.

1597. WILLIAM EDWARD NEWTON, of the Office for Patents, 66, Chancery Lane, in the County of Middlesex, Civil Engineer, for an invention for—"Improved mechanism for operating the shuttles of looms."—*A communication. Letters Patent sealed.*

LAROCHE. 17th July 1855.

1598. PIERRE LAROCHE, of Saventhem, in the Kingdom of Belgium, for an invention for—"Improvements in rotatory steam-engines." *Letters Patent sealed.*

PIDDING. 17th July 1855.

1599. WILLIAM PIDDING, of Putney, in the County of Surrey, for an invention for—"Improvements in coverings for the feet of bipeds and quadrupeds."—*Complete specification. Letters Patent sealed.*

PIDDING. 17th July 1855.

1600. WILLIAM PIDDING, of Putney, in the County of Surrey, for an invention for—"Improvements in the manufacture of building materials."—*Complete specification. Letters Patent sealed.*

SALAVILLE. 17th July 1855.

1601. SCIPION SALAVILLE, of Paris (France), Proprietor, for an invention for—"An improved apparatus for airing and preserving grain, seeds, apples, potatoes, hops, and other similar articles, in granaries, warehouses, and ships."—*Letters Patent sealed.*

JENNER. 17th July 1855.

1602. WILLIAM JENNER, of Southwark, in the County of Surrey, for an invention for—"An improved beverage." *Provisional protection only.*

BOASE. 17th July 1855.

1603. HENRY SAMUEL BOASE, of Claverhouse, Bleachfield, near Dundee, for an invention for—"Improvements in the process of drying organic substances." *Letters Patent sealed.*

BURDESS. 17th July 1855.

1604. ADAM BURDESS, of 763, Old Station, Rugby, in the County of Warwick, Engineer, for an invention for—"Improvements in the construction of oil feeders for lubricating machinery." *Letters Patent sealed.*

SCRAGG. 17th July 1855.

1605. EDWIN SCRAGG, of Albert Works, Buglawton, Congleton, in the County of Chester, for an invention for—"Improvements in steam-engines." *Provisional protection only.*

HUTHNANCE. 17th July 1855.

1606. HENRY HUTHNANCE, of Stratford, in the County of Essex, Engineer, for an invention for—"An improved method of effecting the combustion of coals as used in the production of heat." *Stopped at fiat.*

BARRY. 17th July 1855.

1607. EDWARD BARRY, of Soho Square, in the County of Middlesex, Gentleman, for an invention for—"An improvement in piano-fortes, organs, seraphines, harmoniums, and musical instruments played with a key board similar to that of a piano-forte." *Provisional protection only.*

THURGAR. 18th July 1855.

1608. WALTER CHRISTOPHER THURGAR, of Norwich, Surgeon, for an invention for—"The preservation of the fluid substance of fresh eggs." *Letters Patent sealed.*

RIOT. DEHAIS. 18th July 1855.

1609. THEOPHILE LOUIS MARIE RIOT, Chemist, and SYLVAIN GUILLAUME PAUL DEHAIS, Banker, both of Paris (France), for an invention for—"Improvements in the treatment of silk." *Stopped at fiat.*

HOYOS. 18th July 1855.

1610. FELIX HOYOS, Mechanician, of Paris (France), for an invention for—"Improvements in roasting-spits." *Letters Patent sealed; no specification filed.*

ALMGILL. 18th July 1855.

1611. THOMAS ALMGILL, of Busby, near Glasgow, in the County of Lanark, North Britain, Engraver, for an invention for—"An improved mode of printing on calico and other fabrics and matters, and in machinery and apparatus to be employed therein." *Provisional protection only.*

REILLY. 18th July 1855.

1612. JAMES REILLY, of Essex Bridge, Dublin, Cooper, for an invention for—"Improvements in bending or shaping iron hoops for casks." *Letters Patent sealed.*

TOYE. 18th July 1855.

1613. CHARLES TOYE, of No. 42, Gloucester Street, Queen Square, Middlesex, Mechanic, for an invention for—"Improvements in looms for weaving pile and terry fabrics." *Letters Patent sealed.*

SMITH. 18th July 1855.

1614. WILLIAM SMITH, of Aston, near Birmingham, in the County of Warwick, Manufacturer, for an invention for—"Improvements in the manufacture of steel wire for musical instruments, sewing needles, and other purposes." *Letters Patent sealed.*

TRAPP. 18th July 1855.	**1615.** THOMAS TRAPP, of Mile End, in the County of Middlesex, Ship owner, for an invention for—"An improvement in connecting and disconnecting screw propeller and other shafts."—*A communication.* *Letters Patent sealed.*
ELLIS. 18th July 1855.	**1616.** JOHN ELLIS, of Heckmondwicke, in the County of York, Surgeon, for an invention for—"Certain improvements in the process of manufacturing ammonia, charcoal, animal and vegetable naphtha." *Letters Patent sealed.*
POLLARD. 18th July 1855.	**1617.** JAMES POLLARD, of the Woolwich Road, Bexley Heath, in the County of Kent, for an invention for—"Improvements in the manufacture of gas." *Provisional protection only.*
BALL. WILKINS. 18th July 1855.	**1618.** WILLIAM BALL, of Ilkeston, in the County of Derby, and JOHN WILKINS, of Nottingham, for an invention for—"Improvements in the manufacture of warp fabrics." *Letters Patent sealed.*
KING. HOLDSWORTH. 18th July 1855.	**1619.** JAMES KING, and WILLIAM HOLDSWORTH, of Moss Mill, Rochdale, in the County of Lancaster, Cotton spinners, for an invention for—"Improvements in the manufacture of certain woven cotton fabrics." *Letters Patent sealed.*
BELLFORD. 18th July 1855.	**1620.** AUGUSTE EDOUARD LORADOUX BELLFORD, of 32, Essex Street, Strand, in the County of Middlesex, Patent agent, for an invention for—"A new or improved method of condensing vapours and smoke."—*A communication from Professor Frederic Kuhlmann, of Lille, France.* *Letters Patent sealed.*
BELLFORD. 18th July 1855.	**1621.** AUGUSTE EDOUARD LORADOUX BELLFORD, of No. 32, Essex Street, Strand, London, Patent agent, for an invention for—"Improvements in the valves and passages for effecting the induction and eduction of steam in steam-engines."—*A communication.* *Letters Patent sealed.*
SCULLY. HEYWOOD. 18th July 1855.	**1622.** VINCENT SCULLY, Esquire, and BENNETT JOHNS HEYWOOD, Gentleman, both of the City of Dublin, for an invention for—"Improvements in the construction of cocks and taps." *Letters Patent sealed.*
SCULLY. HEYWOOD. 18th July 1855.	**1623.** VINCENT SCULLY, Esquire, and BENNETT JOHNS HEYWOOD, Gentleman, both of the City of Dublin, for an invention for—"Improvements in the construction of locks and latches, and in keys for the same." *Letters Patent sealed.*
MARTIN. MARTIN. 19th July 1855.	**1624.** ROBERT MARTIN, of High Street, Reading, in the County of Berks, Artist, and JOHN COWDERY MARTIN, of No. 7, Pullen's Row, Islington, in the County of Middlesex, Naval Architect, for an invention for—"An improvement in obtaining pulp from wood." *Letters Patent sealed.*
CLARKE. 19th July 1855.	**1625.** JOHN PRETTY CLARKE, of Leicester, Manufacturer of sewing-cotton, for an invention for—"Improvements in the manufacture of metallic reels." *Letters Patent sealed.*
WRIGHT. GREEN. 19th July 1855.	**1626.** SAMUEL BARLOW WRIGHT, of Parkfield, Stone, Staffordshire, and HENRY THOMAS GREEN, of Moreton, Staffordshire, for an invention for—"Improvements in the manufacture of bricks and tiles." *Letters Patent sealed.*
LAWRIE. 19th July 1855.	**1627.** JAMES GRAY LAWRIE, of Glasgow, Engineer, for an invention for—"Improvements in steam-engines." *Letters Patent sealed.*
BERTINETTI. 19th July 1855.	**1628.** PIETRO BERTINETTI, of 39, Rue de l'Echiquier, Paris, in the Empire of France, and of No. 4, South Street, Finsbury, London, Gentleman, for an invention for—"A new safety projectile." *Letters Patent sealed.*
FISKEN. FISKEN. 19th July 1855.	**1629.** DAVID FISKEN, and THOMAS ROBERT HAY FISKEN, both of Stockton-on-Tees, Engineers, for an invention for "Improvements in transmitting steam or other power for the tillage of land by ploughs and other implements, as well as for other purposes, and machinery for applying the power so transmitted." *Letters Patent sealed.*
FERRYMAN. 19th July 1855.	**1630.** EDWARD AUGUSTUS FERRYMAN, of Wadenhoe, near Oundle, in the County of Northampton, Clerk, for an invention for—"An improved churn." *Letters Patent sealed.*

THOMPSON. MILLS. 19th July 1855.

1631. JAMES THOMPSON, of Pin Mill, in the City of Manchester, Manufacturer, and JAMES MILLS, of the same place, Manager, for an invention for—"Improvements in power looms." *Provisional protection only.*

WOOLBERT. 19th July 1855.

1632. JOHN HENRY WOOLBERT, of Brussels, in the Kingdom of Belgium, Merchant, for an invention for—"Improvements in the preparation of extracts from madder, and in the application of the same directly to fabrics in order to dye or colour them."—*Partly a communication.* *Letters Patent sealed.*

JOHNSON. 19th July 1855.

1633. JOHN HENRY JOHNSON, of 47, Lincoln's Inn Fields, in the County of Middlesex, and of Glasgow, North Britain, Gentleman, for an invention for—"Improvements in transmitting motive-power principally applicable to horsemills."—*A communication from Joseph Pinet, of Abilly, in the Empire of France, Machine maker.* *Letters Patent sealed.*

JOHNSON. 19th July 1855.

1634. JOHN HENRY JOHNSON, of 47, Lincoln's Inn Fields, in the County of Middlesex, and of Glasgow, North Britain, Gentleman, for an invention for—"Improvements in apparatus for actuating railway breaks."—*A communication from Charles Bricogne, of Paris, France.* *Letters Patent sealed.*

JOHNSON. 19th July 1855.

1635. JOHN HENRY JOHNSON, of 47, Lincoln's Inn Fields, in the County of Middlesex, and of Glasgow, North Britain, Gentleman, for an invention for—"Improvements in the manufacture of reeds for weaving, and in the machinery or apparatus employed therein."—*A communication from Henri Victor Wacrenier, of Paris, in the Empire of France.* *Letters Patent sealed.*

BROADBENT. 19th July 1855.

1636. THOMAS BROADBENT, Junior, of Crawford Street, in the County of Middlesex, Plumber, Painter, and Glazier, for an invention for—"Improved apparatus for filtering liquids." *Provisional protection only.*

ISOARD. 19th July 1855.

1637. MATHIEU FRANÇOIS ISOARD, of Paris, in the Empire of France, Engineer, of the firm of Isoard and Company, for an invention for—"Improvements in apparatus for generating steam, and for applying the same to motive-power purposes." *Letters Patent sealed.*

STOCKER. 19th July 1855.

1638. SAMUEL STOCKER, of Brighton, in the County of Sussex, Engineer, for an invention for—"Improvements in water-closets, and in pumps and cocks for supplying water to the same, and for other similar purposes." *Letters Patent sealed.*

GILBEE. 20th July 1855.

1639. WILLIAM ARMAND GILBEE, of No. 4, South Street, Finsbury, London, and 39, Rue de l'Echiquier, Paris, Gentleman, for an invention for—"The employment of a new material in the manufacture of paper."—*A communication.* *Provisional protection only.*

CUNNINGHAM. 20th July 1855.

1640. HENRY DUNCAN PRESTON CUNNINGHAM, of Gosport, in the County of Hants, Esquire, for an invention for—"Improvements in reefing sails." *Letters Patent sealed.*

WHITE. 20th July 1855.

1641. ARCHIBALD WHITE, of Great Missenden, in the County of Buckingham, Conveyancer and Land Agent, for—"An invention for swinging beds and covers and tents, to enable soldiers and others to sleep off the ground and dry, with or without an ordinary tent." *Provisional protection only.*

JOHNSON. 20th July 1855.

1642. JOHN HENRY JOHNSON, of 47, Lincoln's Inn Fields, in the County of Middlesex, and of Glasgow, North Britain, Gentleman, for an invention for—"Improvements in machinery or apparatus for obtaining motive-power, applicable also to the raising, forcing, and exhausting air and other fluids, and partly to the kneading or working of dough or other pastes."—*A communication from Andre Koechlin, Napoléon Joseph Vicomte Duchatet, and Joseph Antoine Auguste de Perpigna.* *Letters Patent sealed.*

JOHNSON. 20th July 1855.

1643. JOHN HENRY JOHNSON, of 47, Lincoln's Inn Fields, in the County of Middlesex, and of Glasgow, North Britain, Gentleman, for an invention for—"Improvements in axles for railway and other purposes."—*A communication from Edmond Roy, of Villefranche, in France, Superintendent of the Section of the Great Central Railway of France, at Villefranche.* *Provisional protection only.*

CONNER.
20th July 1855.

1644. GEORGE CONNER, of 68, Byrom Street, Liverpool, in the County of Lancaster, Brush manufacturer, for an invention for—"An improvement in the manufacture of brushes." *Letters Patent sealed.*

MOLL.
20th July 1855.

1645. FRANCIS MOLL, of Annaberg, near Godesberg, in the Kingdom of Prussia, for an invention for—"The employment of new materials in the manufacture of paper." *Provisional protection only.*

DESCHAMPS.
VILCOQ.
20th July 1855.

1646. CASIMER DESCHAMPS, and CHARLES VILCOQ, of Paris, 22, Rue Richer, and of 52, Essex Street, Strand, London, for an invention for—"A free diving-boat." *Letters Patent sealed.*

FEAU-LEFEBVRE.
20th July 1855.

1647. EDMOND FEAU-LEFEBVRE, of Orleans, in the Empire of France, and of 52, Essex Street, Strand, London, for an invention for—"Improvements in obtaining motive-power." *Provisional protection only.*

STRIBY.
21st July 1855.

1648. WILLIAM STRIBY, of Weinheim, in the Duchy of Baden, Professor of music, for an invention for—"A new and improved system of musical notation." *Letters Patent sealed.*

FONTAINEMOREAU.
21st July 1855.

1649. PETER ARMAND LE COMTE DE FONTAINEMOREAU, of 39, Rue de l'Echiquier, Paris, in the Empire of France, and of 4, South Street, Finsbury, London, for an invention for—"Certain improvements in the construction of voltaic batteries."—*A communication.* *Letters Patent sealed.*

TOOTH.
21st July 1855.

1650. ALFRED TOOTH, of No. 14, Mincing Lane, in the City of London, Merchant, for an invention for—"A process for preserving and curing by salting, the flesh and hides of animals, in an entire state." *Letters Patent sealed.*

PERRY.
21st July 1855.

1651. GEORGE HENRY PERRY, of Wolverhampton, in the County of Stafford, Manufacturer, for an invention for—"An improvement or improvements in vessels or cases to be used for the preservation of articles of food."—*A communication.* *Provisional protection only.*

MCLAREN.
PUGH.
21st July 1855.

1652. ROBERT MCLAREN, of New Peckham, in the County of Surrey, Licensed Victualler, and STEPHEN WILLIAMS PUGH, of Peckham, also in the County of Surrey, Manufacturing Chemist, for an invention for—"Improvements in the manufacture of artificial fuel and fire-lighters, and in moulds to be employed therein." *Stopped at first.*

MYERS.
21st July 1855.

1653. EDWARD MYERS, of Rotherham, in the County of York, Engineer, for an invention for—"Improvements in buffers and other springs for railway and other carriages." *Letters Patent sealed.*

GOODYEAR.
21st July 1855.

1654. CHARLES GOODYEAR, of 25, Avenue Road, St. John's Wood, in the County of Middlesex, for an invention for—"Improvements in the surfaces used for printing." *Partly a communication.* *Stopped at first.*

PITTAR.
21st July 1855.

1655. SAMUEL JOHN PITTAR, of 10, Lisle Street, Leicester Square, Civil Engineer, for an invention for—"Improvements in the construction of bridges."—*Partly a communication.* *Letters Patent sealed.*

DUGDALE.
21st July 1855.

1656. ANTHONY DUGDALE, of Rue Ponthieu, Paris, in the Empire of France, Engineer, for an invention for—"An improvement in the construction of locomotive engines." *Provisional protection only.*

WREN.
21st July 1855.

1657. JOHN WALTER CAWLEY WREN, of Tottenham Court Road, in the County of Middlesex, Iron bedstead manufacturer, for an invention for—"An improved construction of folding perambulator." *Letters Patent sealed.*

TILDESLEY.
21st July 1855.

1658. JAMES TILDESLEY, of Willenhall, in the County of Stafford, Manufacturer, for an invention for—"An improvement or improvements in curry-combs."—*Complete specification.* *Letters Patent sealed.*

HEPPLEWHITE.
21st July 1855.

1659. GEORGE HEPPLEWHITE, of Grosvenor Street, Commercial Road East, in the County of Middlesex, for an invention for—"Improvements in spare rudders for ships." *Letters Patent sealed.*

KENWORTHY. GREENWOOD. 21st July 1855.

1660. WILLIAM EDWARD KENWORTHY, and HENRY GREENWOOD, of Leeds, in the County of York, for an invention for—"Improvements in the construction of screw propellers." *Provisional protection only.*

KELK. 23rd July 1855.

1661. THEOPHILUS HENRY HASTINGS KELK, of Osgathorpe, near Loughborough, in the County of Leicester, Clerk in Holy Orders, for an invention for—"Rendering certain vegetable substances useful for the manufacture of paper and the formation of textile fabrics and cordage or ropes." *Letters Patent sealed.*

RIPLEY. 23rd July 1855.

1662. HENRY WILLIAM RIPLEY, of Bradford, in the County of York, Dyer, for an invention for—"Improvements in dressing and finishing woven fabrics composed wholly or partly of wool."—*Partly a communication.* *Letters Patent sealed.*

GOODYEAR. 23rd July 1855.

1663. CHARLES GOODYEAR, of 25, Avenue Road, St. John's Wood, London, for an invention for—"Improvements in the manufacture of wheels for carriages and other vehicles where india-rubber is used." *Stopped at fiat.*

GOODYEAR. 23rd July 1855.

1664. CHARLES GOODYEAR, of 25, Avenue Road, St. John's Wood, in the County of Middlesex, for an invention for—"An improvement in manufacturing moulded articles made of compounds of india-rubber."—*A communication.* *Stopped at fiat.*

GOODYEAR. 23rd July 1855.

1665. CHARLES GOODYEAR, of 25, Avenue Road, St. John's Wood, in the County of Middlesex, for an invention for—"Improvements in bands or straps for confining or holding papers or documents and other articles, where india-rubber is used." *Stopped at fiat.*

GOODYEAR. 23rd July 1855.

1666. CHARLES GOODYEAR, of 25, Avenue Road, St. John's Wood, in the County of Middlesex, for an invention for—"Improvements in the manufacture of combs." *Stopped at fiat.*

GOODYEAR. 23rd July 1855.

1667. CHARLES GOODYEAR, of 25, Avenue Road, St. John's Wood, London, for an invention for—"Improvements in the manufacture of boats and other vessels." *Stopped at fiat.*

ACHARD. 23rd July 1855.

1668. AUGUSTE ACHARD, of Chatte, near St. Marcellin (Isère, France), and of No. 25, Rue Neuve Coquenard, Paris (France), Pupil of the Polytechnic School, for an invention for—"Improvements in the application of electricity as a transmitting agent of motive-power." *Letters Patent sealed.*

ROLLET. 23rd July 1855.

1669. GEORGE HANDSON ROLLET, of Liverpool, in the County of Lancaster, Surveyor, for an invention for—"Improvements in projectiles for fire-arms." *Letters Patent sealed.*

CRAIG. 24th July 1855.

1670. WILLIAM GRINDLEY CRAIG, of Gorton, near Manchester, in the County of Lancaster, Engineer, for an invention for—"Improvements in the mode or method of consuming smoke, and in the machinery or apparatus employed therein." *Provisional protection only.*

RITTERBANDT. BOWER. 24th July 1855.

1671. LOUIS ANTOINE RITTERBANDT, of Warwick Street, Regent Street, M.D., and JOSEPH BOWER, of Hunslet, near Leeds, Manufacturing Chemist, for an invention for—"An improvement in the manufacture of manure." *Letters Patent sealed.*

BRADLEY. 24th July 1855.

1672. LONSDALE BRADLEY, of Richmond, in the County of York, Gentleman, for an invention for—"Improvements in reaping-machines."—*Provisional protection only.*

WESTWOOD. BAILLIE. 24th July 1855.

1673. JOSEPH WESTWOOD, of Poplar, in the County of Middlesex, Iron ship builder, and ROBERT BAILLIE, also of Poplar, in the County of Middlesex, Iron ship builder, for an invention for—"Improvements in preserving timber built ships, also timber or wood and wrought iron, used in situations exposed to the action of water or of weather." *Letters Patent sealed.*

STENT. 24th July 1855.

1674. HENRY STENT, of Warwick Place, Birmingham, in the County of Warwick, Gas-meter maker, for an invention for—"Improvements in the construction of apparatus for measuring gas and other fluids." *Letters Patent sealed.*

TWIST. 24th July 1855.

1675. SAMUEL TWIST, of Birmingham, in the County of Warwick, Manufacturer, for an invention for—"Improvement or improvements in producing ornamental inscriptions and devices on glass." *Provisional protection only.*

WOOD. 24th July 1855.

1676. BENJAMIN WOOD, of the Caledonian Road, in the County of Middlesex, Chemist, for an invention for—"An improved preparation of colouring matter for the manufacture of artists' colours, and for other purposes for which such colouring matter may be applicable." *Letters Patent sealed.*

JOHNSON. 24th July 1855.

1677. JOHN HENRY JOHNSON, of 47, Lincoln's Inn Fields, in the County of Middlesex, and of Glasgow, North Britain, Gentleman, for an invention for—"Improvements in breech loading and self capping fire-arms, and in percussion caps or primers, and in the mode of applying such percussion caps or primers to fire-arms."—*A communication from William Pratt, of the City of Baltimore, in the State of Maryland, in the United States of America.* *Letters Patent sealed.*

JOHNSON. 24th July 1855.

1678. JOHN HENRY JOHNSON, of 47, Lincoln's Inn Fields, in the County of Middlesex, and of Glasgow, North Britain, Gentleman, for an invention for—"Improvements in breech loading cannon and fire-arms and in their projectiles."—*A communication from William Pratt, of the City of Baltimore, in the State of Maryland, in the United States of America.* *Letters Patent sealed.*

STEANE. 24th July 1855.

1679. SAMUEL EDWARD STEANE, trading under the firm of Steane & Co., Importers and Manufacturers, of the City of Oxford, for an invention for—"The application of perfumery to articles of domestic use, such as candles, starch, washing-balls, lamp oil, and such like articles." *Provisional protection only.*

BROOMAN. 24th July 1855.

1680. RICHARD ARCHIBALD BROOMAN, of 166, Fleet Street, in the City of London, Patent agent, for an invention for—"An improvement in machinery for making pipes and tubes."—*A communication.* *Letters Patent sealed.*

PETITJEAN. 24th July 1855.

1681. TONY PETITJEAN, of Tottenham Court Road, in the County of Middlesex, Chemist, for an invention for—"Improvements in silvering, gilding, and platinizing glass." *Letters Patent sealed.*

HEWITT. 24th July 1855.

1682. THOMAS HEWITT, of Morley Park Works, near Belper, in the County of Derby, Underground Mineral agent, for an invention for—"Improvements in pumps." *Letters Patent sealed.*

HUTHNANCE. 24th July 1855.

1683. RICHARD POLKINHORN HUTHNANCE, of Chipping Norton, in the County of Oxford, for an invention for—"Improvements in drying, and in apparatus to be used therein." *Letters Patent sealed.*

BAILEY. 24th July 1855.

1684. BENJAMIN BAILEY, of Leicester, Machine maker, for an invention for—"Improvements in manufacturing knitted fabrics." *Letters Patent sealed.*

BOUSFIELD. 24th July 1855.

1685. GEORGE TOMLINSON BOUSFIELD, of 8, Sussex Place, Loughborough Road, Brixton, in the County of Surrey, for an invention for—"Improvements in cutting wood."—*A communication.* *Letters Patent sealed.*

GOODYEAR. 24th July 1855.

1686. CHARLES GOODYEAR, of 25, Avenue Road, St. John's Wood, London, for an invention for—"Improvements in the manufacture of carriages and other vehicles." *Stopped at fiat.*

POTIN. LINGÉE. 24th July 1855.

1687. JEAN BAPTISTE MARIE POTIN, Chemist, and ANTOINE GABRIEL NICOLAS LINGÉE, Landlord, both residing in Paris, Rue Richer, No. 26, for an invention for—"An improved composition applicable to the coating of iron, wood, stone, metals, and other substances." *Provisional protection only.*

TUCKER. 25th July 1855.

1688. EDWARD SAMUEL TUCKER, of Kentish Town, in the County of Middlesex, for an invention for—"An improved busk and hook for stays." *Provisional protection only.*

GIRARD. 25th July 1855.

1689. JACQUES GIRARD, of No. 5, Rue Notre Dame de Grâce, in the City of Paris, and 77, Chancery Lane, London, for an invention for—"Improvements in generating and applying steam to rotary engines of an improved construction." *Provisional protection only.*

SCULLY. HEYWOOD. 25th July 1855.

1690. VINCENT SCULLY, Esquire, and BENNETT JOHNS HEYWOOD, Gentleman, both of the City of Dublin, for an invention for—"Improvements in vessels for containing and preserving fluids." *Letters Patent sealed.*

WEALLENS. CROW. 25th July 1855.

1691. WILLIAM WEALLENS, of No. 12, Elswick Villas, and GEORGE ARTHUR CROW, of Forth Street, Newcastle-on-Tyne, Mechanical Engineers, for an invention for—"Improvements in steam-engines." *Letters Patent sealed.*

DAVIES. 26th July 1855.

1692. DAVID DAVIES, of Heaton Lane, Stockport, in the County of Lancaster, Iron and Brass founder, for an invention for—"A self evident economic boiler for heating with hot water, buildings of every description." *Letters Patent sealed.*

SCHIELE. 26th July 1855.

1693. CHRISTIAN SCHIELE, of Oldham, in the County of Lancaster, Engineer, for an invention for—"Certain improvements in obtaining and applying motive-power." *Letters Patent sealed.*

HALL. 26th July 1855.

1694. THOMAS MITCHESON HALL, of Preston, in the County of Lancaster, Engineer, for an invention for—"Improvements in the construction of chimneys, more particularly applicable to the chimneys and funnels of locomotive and marine engines." *Provisional protection only.*

BEATTIE. 26th July 1855.

1695. JAMES BEATTIE, of No. 26, Hans Place, Chelsea, in the County of Middlesex, Gentleman, for an invention for—"A combination or contrivance of a folding mattress, with or without a tent attached, hut, ambulance for conveyance of wounded or sick persons, pontoon, raft, and boat, portable cistern and bath." *Letters Patent sealed.*

GEDGE. 26th July 1855.

1696. JOHN GEDGE, of No. 4, Wellington Street South, Strand, in the County of Middlesex, Patent agent, for an invention for—"Improvements in pumps."—*A communication from Paul Legreze, and Auguste Andrieu, of Castres, in the Empire of France.* *Provisional protection only.*

HUNT. 26th July 1855.

1697. JOHN HUNT, of New Kent Road, in the County of Surrey, for an invention for—"An expanding and contracting self fastening band." *Stopped at fiat.*

PONCELIN. 26th July 1855.

1698. THÉRÈSE ALEXANDRINE PONCELIN, of Paris, in the Empire of France, and of 32, Essex Street, Strand, London, for an invention for—"Improvements in treating or preparing coffee." *Letters Patent sealed.*

BROWN. 26th July 1855.

1699. WILLIAM BROWN, of Bradford, in the County of York, Machine woolcomber, for an invention for—"Improvements in machinery or apparatus for combing wool and other fibrous substances." *Provisional protection only.*

HANCOCK. 26th July 1855.

1700. ROBERT HENRY HANCOCK, of 18, West Street, Smithfield, in the City of London, for an invention for—"Improvements in the means of stopping carriages or trains to prevent railway accidents." *Provisional protection only.*

THOMPSON. 26th July 1855.

1701. CHRISTOPHER THOMPSON, of South Shields, in the County of Durham, Engineer, for an invention for—"Certain improvements in furnaces with a view to the prevention of smoke." *Stopped at fiat.*

DAWSON. 26th July 1855.

1702. THOMAS DAWSON, of King's-arms Yard, in the City of London, Engineer, for an invention for—"Improvements in bedsteads, couches, and other like articles of furniture, whereby parts thereof can be made to form a fire-escape when required." *Letters Patent sealed.*

GOODYEAR. 26th July 1855.

1703. CHARLES GOODYEAR, of Avenue Road, St. John's Wood, in the County of Middlesex, for an invention for—"An improvement in the manufacture of gunpowder."—*A communication.* *Stopped at fiat.*

GOODYEAR. 26th July 1855.

1704. CHARLES GOODYEAR, of Avenue Road, St. John's Wood, in the County of Middlesex, for an invention for—"Improvements in carpet and other bags."—*Partly a communication.* *Stopped at fiat.*

MARDON. 26th July 1855.

1705. WILLIAM MARDON, of Christchurch Chambers, Newgate Street, in the City of London, Solicitor, for an invention for—"An improvement in treating garancine."—*A communication.* *Letters Patent sealed.*

ALLEN. 27th July 1855.

1706. WILLIAM ALLEN, of the Athenæum Club, Pall Mall, in the County of Middlesex, Captain in the Royal Navy, for an invention for—"A new vehicle for the transport of camp baggage." *Letters Patent sealed.*

HODGES. 27th July 1855.

1707. CHARLES HODGES, of the City of Manchester, in the County of Lancaster, Manufacturer and Merchant, for an invention for—"Improvements in machinery or apparatus for knitting plain, ribbed, or figured hosiery."—*A communication from John Pepper, and Thomas Appleton, of Franklin, United States of America.*

Letters Patent sealed.

BENFIELD. 27th July 1855.

1708. JOHN AARON BENFIELD, of Rotherhithe, in the County of Surrey, for an invention for—"Improvements in propelling vessels." *Letters Patent sealed.*

EFFERTZ. 27th July 1855.

1709. PETER EFFERTZ, of Aix-la-Chapelle, in the Kingdom of Prussia, Engineer, for an invention for—"Improvements in machinery for cutting, creasing, or marking paper, card, and paste board, and other like substances."—*Provisional protection only.*

BRIDGEWATER. 27th July 1855.

1710. WILLIAM BRIDGEWATER, of Cheltenham, in the County of Gloucester, Gentleman, for an invention for—"Certain improvements in the manufacture of roofing and other tiles." *Letters Patent sealed.*

KIRKMAN. 27th July 1855.

1711. CHARLES FELTON KIRKMAN, of Argyle Street, Regent Street, in the County of Middlesex, Gentleman, for an invention for—"Certain improvements in machinery for spinning cotton, silk, flax, wool, hemp, and other fibrous substances."

Letters Patent sealed.

WHITEHEAD. WHITEHEAD. 27th July 1855.

1712. JOHN WHITEHEAD, Junior, of Elton, near Bury, in the County of Lancaster, and ROBERT KAY WHITEHEAD, of the same place, Bleachers and Dyers, for an invention for—"Improvements in the manufacture and finishing of textile fabrics."

Letters Patent sealed.

SMITH. 27th July 1855.

1713. ANDREW SMITH, of Manchline, in the County of Ayr, North Britain, Gentleman, for an invention for—"Improvements in portable cases or holding receptacles for cigars, spectacles, cards, cutlery, and other articles." *Provisional protection only.*

WOODS. 27th July 1855.

1714. GEORGE WOODS, of 60, and 61, Crown Street, Finsbury Square, Saddlers' Ironmonger, for an invention for—"Improvements in pack saddles."

Letters Patent sealed.

PARIS. 28th July 1855.

1715. CHARLES EMILE PARIS, of Paris, in the Empire of France, and of 4, South Street, Finsbury, London, Chemist, for an invention for—"A new material to be used in the manufacture of crystal enamel and other similar products."

Letters Patent sealed.

ABRAHAM. 28th July 1855.

1716. HENRY ROBERT ABRAHAM, of No. 11, Howard Street, Strand, in the County of Middlesex, for an invention for—"A carriage on two wheels, for passenger traffic and general conveyance of a number of persons or invalid or wounded persons, to be called a Rotalta." *Provisional protection only.*

BARRY. 28th July 1855.

1717. HENRY HEATON BARRY, of Bedford Street, Strand, in the County of Middlesex, for an invention for—"Improvements in machinery for combing and carding wool, flax, mohair, and other fibrous substances." *Provisional protection only.*

LEVAVASSEUR. 28th July 1855.

1718. FRANÇOIS GEORGES HYACINTHE LEVAVASSEUR, of the firm of François Georges Hyacinthe Levavasseur and Auguste Joseph Levavasseur, of Paris, in the Empire of France, Lamp Manufacturers, for an invention for—"Improvements in oil lamps and an improved chimney for oil lamps." *Letters Patent sealed.*

HYDE. 28th July 1855.

1719. JOHN HYDE, of Sheffield, in the County of York, for an invention for—"Improvements in furniture-casters." *Provisional protection only.*

WILSON. 28th July 1855.

1720. ROBERT WILSON, of Glasgow, in the County of Lanark, North Britain, Finisher, for an invention for—"Improvements in folding and preparing or pressing woven fabrics and other materials." *Provisional protection only.*

BROWNFOOT. 28th July 1855.

1721. WILLIAM BROWNFOOT, of Leeds, in the County of York, Cabinet-maker, for an invention for—"A new or improved instrument or apparatus for raising, lowering, and adjusting blinds, maps, and other such like articles."

Provisional protection only.

KERR. 28th July 1855.

1722. JAMES KERR, of Bedford Terrace, Trinity Square, Southwark, in the County of Surrey, for an invention for—"Improvements in revolver fire-arms."

Letters Patent sealed.

WILLIS. 28th July 1855.

1723. FREDERICK WILLIS, of King Street, St. James, in the County of Middlesex, for an invention for—"An improvement in the manufacture of wine bottles." *Provisional protection only.*

DAFT. 28th July 1855.

1724. THOMAS BARNABAS DAFT, of the Isle of Man, Esquire, for an invention for—"Improvements in inkstands." *Provisional protection only.*

GOODYEAR. 28th July 1855.

1725. CHARLES GOODYEAR, of Avenue Road, St. John's Wood, in the County of Middlesex, for an invention for—"Improvements in manufacturing covers for floors when compounds of india-rubber are used." *Stopped at fiat.*

PEACOCK. BARRY. 30th July 1855.

1726. JAMES PEACOCK, and HENRY HEATON BARRY, both of Bedford Street, Strand, in the County of Middlesex, for an invention for—"Improvements in instruments for making copies of writings simultaneously with the originals." *Provisional protection only.*

FILLIER. 30th July 1855.

1727. JOSEPH MARIE FILLIER, of 39, Rue de l'Echiquier, Paris, in the Empire of France, and of 4, South Street, Finsbury, London, Merchant, for an invention for—"Certain improvements in looms for weaving." *Letters Patent sealed.*

PIPER. 30th July 1855.

1728. CHARLES PIPER, Gun maker, of Cambridge, in the County of Cambridge, for an invention for—"The improvement of gun stocks of every description used both for sporting and military purposes." *Letters Patent sealed.*

COLES. 30th July 1855.

1729. WILLIAM FLETCHER COLES, of 61, Paul Street, Finsbury, for an invention for—"An improvement in the manufacture of boots and shoes."—*Letters Patent sealed.*

TRURAN. 30th July 1855.

1730. WILLIAM TRURAN, of Marazion, in the County of Cornwall, Civil Engineer, for an invention for—"Improvements in smelting, and in apparatus to be used therein." *Letters Patent sealed.*

CLUNES. 30th July 1855.

1731. THOMAS CLUNES, of Aberdeen, in the County of Aberdeen, North Britain, Plumber, for an invention for—"Improvements in pumps and fire-engines." *Provisional protection only.*

HANSON. 30th July 1855.

1732. JOHN HANSON, of Dough, Belfast, in the County of Antrim, Ireland, Land agent and Farmer, for an invention for—"Improvements in machinery or apparatus for digging potatoes." *Letters Patent sealed.*

WHITEHEAD. 30th July 1855.

1733. JAMES HIRST WHITEHEAD, of Mowville, in the Township of Burley, and parish of Otley, in the County of York, Gentleman, for an invention for—"Improvements in the construction of steam-boiler furnaces." *Provisional protection only.*

MACKWORTH. 31st July 1855.

1734. HERBERT MACKWORTH, of Clifton Wood House, Clifton, in the County of Gloucester, Mining Engineer, for an invention for—"Improvements in washing and separating minerals and other substances in a granular or pulverulent state." *Letters Patent sealed.*

BROUGH. 31st July 1855.

1735. NEHEMIAH BROUGH, of Birmingham, in the County of Warwick, Manufacturer, for an invention for—"Improvements in the manufacture of clasps and buckles." —*Complete specification.* *Letters Patent sealed.*

COLBY. 31st July 1855.

1736. HALL COLBY, of the City and State of New York, United States of America, for an invention for—"Improvements in the construction of an instrument for taking altitudes, angles, called an improved altimeter or self adjusting quadrant." *Letters Patent sealed.*

DALMAN. 31st July 1855.

1737. GEORGE JAMES DALMAN, of Alfred Villas, Enfield Road, Kingsland, for an invention for—"An improvement in the manufacture of glazes for earthenware."—*A communication.* *Provisional protection only.*

DUPONT. 31st July 1855.

1738. LOUIS NARCISSE DUPONT, Manufacturer, of Louviers, Town in the French Empire, for an invention for—"Improvements in making an improved fabric called Drap de Soie." *Provisional protection only.*

ROBERT. 1st August 1855.

1739. JOSEPH ROBERT, of Leige, in the Kingdom of Belgium, Mechanical Engineer, for an invention for—"Improvements in machinery for manufacturing fire-arms."—*Complete specification.* *Letters Patent sealed.*

BRITTEN.
1st August 1855.

1740. BASHLEY BRITTEN, of Anerley, in the County of Surrey, Gentleman, for an invention for—"Improved projectiles."—*Complete specification. Letters Patent sealed.*

MELLOR.
YOUNG.
1st August 1855.

1741. SAMUEL MELLOR, of Salford, in the County of Lancaster, Mechanic, and THOMAS YOUNG, of the City of Manchester, Tobacco manufacturer, for an invention for—"Improvements in machinery for supplying water to steam-boilers." *Letters Patent sealed.*

BROOMAN.
1st August 1855.

1742. RICHARD ARCHIBALD BROOMAN, of 166, Fleet Street, in the City of London, Patent agent, for an invention for—"Certain improvements in manufacturing paper, paste board, and pulp."—*A communication from H. V. Pinondel de la Bertoche, of Paris. Letters Patent sealed.*

CLARKE.
1st August 1855.

1743. JOHN CLARKE, of Leicester, for an invention for—"Improvements in machinery for making loop fabrics." *Letters Patent sealed; no specification filed.*

VAUGHAN.
VAUGHAN.
VAUGHAN.
1st August 1855.

1744. CHARLES VAUGHAN, of Birmingham, in the County of Warwick, Manufacturer, WILLIAM JAMES VAUGHAN, of Birmingham aforesaid, Manufacturer, and RICHARD VAUGHAN, of Birmingham aforesaid, Manufacturer, for an invention for —"An improvement or improvements in making and attaching the handles of iron bowls and other iron vessels." *Provisional protection only.*

BUFNOIR.
1st August 1855.

1745. GEORGES BUFNOIR, Merchant, of Lyons (Empire of France), and of 32, Essex Street, Strand, London, for an invention for—"Certain improvements in stopping bottles and other vessels." *Provisional protection only.*

GLUKMAN.
1st August 1855.

1746. LEON GLUKMAN, of Dublin, Professor of Natural Philosophy, for an invention for—"An improved box for papers, letters, and other documents." *Provisional protection only.*

ALLAN.
2nd August 1855.

1747. ALEXANDER ALLAN, of the City of Perth, North Britain, Engineer, for an invention for—"Improvements in the valve gear of locomotive and other engines." *Letters Patent sealed.*

STANLEY.
2nd August 1855.

1748. JOHN STANLEY, Mechanical Engineer, of 214, Whitechapel Road, in the parish of Saint Mary, Whitechapel, in the County of Middlesex, for an invention for —"Improvements in weighing-machines and weights used with the same, which improvements apply principally to weigh-bridges, weighing-cranes, and the class of weighing-machines acting upon levers, steelyards &c." *Letters Patent sealed.*

SAUNDERS.
2nd August 1855.

1749. JAMES SAUNDERS, of Newgate Street, in the City of London, Clothier, for an invention for—"An improved roller for cloths and other fabrics." *Letters Patent sealed.*

WOLLER.
BUTTERFIELD.
2nd August 1855.

1750. SAMSON WOLLER, of Bradford, in the County of York, Manufacturer, and ILLINGWORTH BUTTERFIELD, of the same place, Manager, for an invention for —"Improvements in machinery for weaving figured fabrics." *Letters Patent sealed.*

BODMER.
2nd August 1855.

1751. RUDOLPH BODMER, of 2, Thavies Inn, Holborn, in the City of London, for an invention for—"Certain improvements in rotatory steam-engines."—*A communication from Mr. Grainicher, of Natchez, Mississippi, United States of America. Letters Patent sealed.*

TILGHMAN.
2nd August 1855.

1752. RICHARD ALBERT TILGHMAN, of the City of Philadelphia, United States of America, Chemist, for an invention for—"Improvements in the manufacture of candles." *Letters Patent sealed.*

AIREY.
LACKABANE.
2nd August 1855.

1753. DANIEL AIREY, of Preston, in the County of Lancaster, Engineer, and WILLIAM HENRY LACKABANE, of the same place, Mechanic, for an invention for —"Improvements in rotatory steam-engines." *Stopped at fiat.*

MEYERSTEIN.
3rd August 1855.

1754. WILLIAM MEYERSTEIN, of 47, Friday Street, in the City of London, in the County of Middlesex, in England, for an invention for—"A new and improved sewing-machine."—*Complete specification. Stopped at learing.*

WATSON.
3rd August 1855.

1755. HENRY HOUGH WATSON, of Bolton-le-Moors, in the County of Lancaster, Analytical Chemist, for an invention for—"Improvements in the manufacture of coke." *Letters Patent sealed.*

LANE.
3rd August 1855.

1756. JOSEPH LANE, of Birmingham, in the County of Warwick, Manufacturer, for an invention for—"Improvements in the manufacture of gold leaf."
Letters Patent sealed.

BELLFORD.
3rd August 1855.

1757. AUGUSTE EDOUARD LORADOUX BELLFORD, of 32, Essex Street, Strand, in the County of Middlesex, Patent agent, for an invention for—"Certain improvements in grinding-mills."—*A communication.* *Letters Patent sealed.*

MORGUET.
3rd August 1855.

1758. JEAN BAPTISTE MORGUET, of Paris, and of 32, Essex Street, Strand, London, for an invention for—"An apparatus for the destruction of the weevil, its larvæ and its eggs, whilst drying the corn, without injuring its ordinary properties."
Letters Patent sealed.

FULLARD.
3rd August 1855.

1759. GEORGE HENRY FULLARD, of Thorney, in the County of Cambridge, Farmer, for an invention for—"An improved pin for thatch coverings for stacks and roofs." *Stopped at fiat.*

GLOVER.
3rd August 1855.

1760. FREDERICK ROBERT AUGUSTUS GLOVER, of Endell Street, in the County of Middlesex, Master of Arts, for an invention for—"Improvements in the means of carrying knapsacks and other burthens upon or from the shoulders."
Letters Patent sealed.

PFAFF.
3rd August 1855.

1761. JOHN CHARLES ALEXANDER PFAFF, of Wiesbaden, in the Grand Duchy of Hesse, Engineer, for an invention for—"Improvements in obtaining and applying motive-power." *Provisional protection only.*

TILGHMAN.
3rd August 1855.

1762. RICHARD ALBERT TILGHMAN, of the City of Philadelphia, United States of America, Chemist, for an invention for—"Improvements in the manufacture of alkalies and alkaline earths." *Letters Patent sealed.*

BETJEMANN.
3rd August 1855.

1763. HENRY JOHN BETJEMANN, of 449, New Oxford Street, in the County of Middlesex, for an invention for—"Improvements in extending tables."—*A communication.* *Letters Patent sealed.*

RITCHIE.
RITCHIE.
3rd August 1855.

1764. CHARLES RITCHIE, of New Palace Yard, and GEORGE RITCHIE, of Millbank Street, both in the City of Westminster, for an invention for—"Improvements in preparing cork and other materials for stuffing." *Provisional protection only.*

JOHNSON.
3rd August 1855.

1765. JOHN HENRY JOHNSON, of 47, Lincoln's Inn Fields, in the County of Middlesex, and of Glasgow, North Britain, Gentleman, for an invention for—"Improvements in the manufacture of metallic waterproof fabrics or materials, and in the application thereof."—*A communication from Nicolas Ernest Theophile Petin, of Montmartre, near Paris, in the Empire of France, Gentleman.* *Provisional protection only.*

JOHNSON.
3rd August 1855.

1766. JOHN HENRY JOHNSON, of 47, Lincoln's Inn Fields, in the County of Middlesex, and of Glasgow, North Britain, Gentleman, for an invention for—"Improvements in the purification of gas for illuminating purposes, by separating therefrom the carbonic oxyde, and in the application of such carbonic oxyde to heating purposes."—*A communication from Mathieu Léon Pujol, of Paris, in the Empire of France, Gentleman.* *Provisional protection only.*

RICHARDSON.
GREENSHIELDS.
3rd August 1855.

1767. ROBERT RICHARDSON, and WALTER GREENSHIELDS, both of Douglas, in the Isle of Man, Manufacturers, for an invention for—"Improvements in chenille fabrics."
Letters Patent sealed.

JOHNSON.
3rd August 1855.

1768. JOHN HENRY JOHNSON, of 47, Lincoln's Inn Fields, in the County of Middlesex, and of Glasgow, North Britain, Gentleman, for an invention for—"A new material for ornamenting various articles."—*A communication from Charles Victor Beslay, of Paris, in the Empire of France, Merchant.* *Provisional protection only.*

PERROT.
4th August 1855.

1769. HENRI LOUIS RACINE PERROT, of Chaux de fonds, in the Republic of Switzerland, Watch manufacturer, for an invention for—"An improved escapement for chronometers." *Provisional protection only.*

WARNER.
4th August 1855.

1770. ARTHUR WARNER, of No. 11, New Broad Street, in the City of London, Merchant, for an invention for—"Improvements in coating or combining sheet iron and steel with sheet lead, zinc, tin, copper, or alloys of such metals."—*Complete specification.* *Letters Patent sealed.*

WHITEMAN. 4th August 1855.

1771. EDWARD WHITEMAN, of Riverhead, in the parish of Sevenoaks, in the County of Kent, Glover and Gaiter maker, for an invention for—"An improvement in the manufacture of waterproof coats, boots, capes, overalls, and other garments."
Provisional protection only.

ANDERSON. 4th August 1855.

1772. JOHN ANDERSON, of Edinburgh, in the County of Midlothian, North Britain, Clothier, for an invention for—"Improvements in shirts."
Provisional protection only.

HALL. 4th August 1855.

1773. EDWARD HALL, of Dartford, in the County of Kent, Engineer, for an invention for—"Improvements in the manufacture of gunpowder."—*Letters Patent sealed.*

MACINTOSH. 6th August 1855.

1774. JOHN MACINTOSH, of Great Ormond Street, in the County of Middlesex, for an invention for—"Certain improvements in the application of incendiary materials to be used in warfare."

GEDGE. 6th August 1855.

1775. JOHN GEDGE, of No. 4, Wellington Street South, Strand, in the County of Middlesex, Patent agent, for an invention for—"Obtaining and employing motive-power."—*A communication from Aristide Ratte, Civil Engineer, Marseilles, France.*
Provisional protection only.

DISNEY. 6th August 1855.

1776. HENRY DISNEY, of No. 16, Stanley Street, Eccleston Square, in the County of Middlesex, Esquire, for an invention for—"Improvements in war projectiles."
Stopped at first reference.

AVERY. 6th August 1855.

1777. JOHN AVERY, of 32, Essex Street, Strand, London, Patent agent, for an invention for—"Improvements in windlasses for ships and other purposes."—*A communication.* *Letters Patent sealed.*

GILBEE. 6th August 1855.

1778. HENRY GILBEE, of No. 4, South Street, Finsbury, London, and 39, Rue de l'Echiquier, Paris, for an invention for—"Certain improvements in constructing flat bottomed boats."—*A communication from Monsieur Jacoreneo, of Paris, France.*
Letters Patent sealed.

WILSON. 6th August 1855.

1779. FISCHER ALEXANDER WILSON, of Islington, Middlesex, for an invention for—"A portable cooking apparatus suitable for campaigning purposes."
Letters Patent sealed.

PLATT. HIBBERT. 6th August 1855.

1780. JOHN PLATT, of Oldham, in the County of Lancaster, Mechanical Engineer, and JOHN HIBBERT, of Ashton-under-Lyne, in the same County, Manager, for an invention for—"Improvements in mules for spinning and doubling, which improvements are also applicable to other machines in which clutch boxes are used."
Letters Patent sealed.

PRADEL. 6th August 1855.

1781. HENRI AUGUSTE PRADEL, Manufacturer, of Paris, in the French Empire, for an invention for—"Certain improvements in twisting textile goods or fabrics."—*A communication.* *Letters Patent sealed.*

LILLEY. 6th August 1855.

1782. JOHN LILLEY, of Birkenhead, in the County of Chester, Merchant, for an invention for—"Improvements in obtaining textile fibres, and in the manufacture of pulp and dye." *Stopped at fee.*

HAMNETT. 7th August 1855.

1783. JAMES HAMNETT, of Broadbottom, in the County of Chester, Overlooker, for an invention for—"Improvements in shuttle tongues."—*Provisional protection only.*

BEDELLS. 7th August 1855.

1784. CALEB BEDELLS, of Leicester, for an invention for—"An improvement in the manufacture of elastic fabrics." *Letters Patent sealed.*

LISTER. 7th August 1855.

1785. SAMUEL CUNLIFFE LISTER, of Bradford, in the County of York, for an invention for—"Improvements in heckling, combing, and treating flax, wool, and other fibrous material, before being spun." *Letters Patent sealed.*

MANNING. 7th August 1855.

1786. JAMES ALEXANDER MANNING, of the Inner Temple, London, Esquire, for an invention for—"Improvements in the treatment of sewerage." *Letters Patent sealed.*

JOHNSON. 7th August 1855.

1787. JOHN HENRY JOHNSON, of 47, Lincoln's Inn Fields, in the County of Middlesex, and of Glasgow, North Britain, Gentleman, for an invention for—"Improvements in the manufacture of india-rubber."—*A communication from Austin S. Day, of the United States of America.* *Letters Patent sealed.*

NASMYTH. 7th August 1855.

1788. GEORGE NASMYTH, of Kennington, in the County of Surrey, Civil Engineer, for an invention for—"Improvements in preserving animal and vegetable matters." *Provisional protection only.*

MURPHY. 7th August 1855.

1789. WILLIAM JEREMIAH MURPHY, of the City of Cork, in Ireland, Distiller, for an invention for—"Improvements in obtaining motive-power." *Provisional protection only.*

TILESTON. 7th August 1855.

1790. WILLIAM MITCHELL TILESTON, of 16, Cannon Street, in the City of London, for an invention for—"Improvements in machinery for ruling paper."—*A communication.* *Letters Patent sealed.*

HOPKINSON. 8th August 1855.

1791. WILLIAM HOPKINSON, of Huddersfield, in the County of York, Engineer, for an invention for—"Improvements in steam-engine boilers, furnaces and apparatus connected therewith." *Stopped at second reference.*

PYCOCK. 8th August 1855.

1792. BENJAMIN WILLIAMSON PYCOCK, of Southholme, Gainsborough, in the County of Lincoln, for an invention for—"Improvements in curtain fixtures."—*A communication.* *Letters Patent sealed.*

BARON. LANG. LIVERSAGE. 8th August 1855.

1793. WILLIAM BARON, Overlooker, JOSEPH LANG, Overlooker, and HENRY LIVERSAGE, Reed maker, all of Blackburn, in the County of Lancaster, for an invention for—"Improvements applicable to machinery for winding and for sizing or dressing yarns or threads." *Provisional protection only.*

SMITH. 8th August 1855.

1794. NATHANIEL SMITH, of Thrapstone, in the County of Northampton, Engineer, for an invention for—"An improved horse rake." *Letters Patent sealed.*

HADDAN. 8th August 1855.

1795. JOHN COOPE HADDAN, of Cannon Row, in the City of Westminster, Civil Engineer, for an invention for—"Improvements in the manufacture of rifled and other cannon." *Letters Patent sealed.*

COOLEY. 8th August 1855.

1796. ROBERT BARLOW COOLEY, of Nottingham, Hat manufacturer, for an invention for—"Improvements in the manufacture of hats." *Letters Patent sealed.*

DEVY. 8th August 1855.

1797. PHILIPPE AMÉDÉE DEVY, of 10, Old Jewry Chambers, Old Jewry, for an invention for—"Improvements in hair fabrics."—*A communication.* *Letters Patent sealed.*

THOMAS. 8th August 1855.

1798. CHARLES FREDERICK THOMAS, of the State of Massachusetts, of the United States of America, for an invention for—"Certain new and useful improvements in boilers for steam carriages."—*Complete specification.* *Letters Patent sealed.*

SIDEBOTTOM. 9th August 1855.

1799. JOHN SIDEBOTTOM, of Broadbottom, in the County of Chester, Manufacturer, for an invention for—"Improvements in shuttles and in skewers for shuttles and other purposes." *Letters Patent sealed.*

DELPERDANGE. 9th August 1855.

1800. VICTOR DELPERDANGE, Engineer, residing at Bruxelles, in the Kingdom of Belgium, for an invention for—"A new mode of constructing and joining tubes and pipes." *Letters Patent sealed.*

COOKE. 9th August 1855.

1801. EDWARD COOKE, of Balsall Heath, near Birmingham, in the County of Warwick, Accountant Clerk, for an invention for—"An improvement or improvements in moulds used in casting certain parts of metallic furniture." *Letters Patent sealed.*

LATOUR. LATOUR. 9th August 1855.

1802. PHILIPPE LATOUR, and MAURICE LATOUR, of Paris, France, and of 32, Essex Street, Strand, London, Manufacturers, for an invention for—"Certain improvements in looms for weaving." *Provisional protection only.*

WEBSTER. 9th August 1855.

1803. ALONZO WEBSTER, of the State of Vermont, of the United States of America, for an invention for—"An improvement in machinery by which a horse may be suddenly disengaged from a carriage while running away with the same, or whenever required to be detached from it quickly."—*Partly a communication from Harvey Webster, of the said State of Vermont.* *Complete specification.* *Letters Patent sealed.*

FONTAINEMOREAU. 9th August 1855.

1804. PETER ARMAND LE COMTE DE FONTAINEMOREAU, of 4, South Street, Finsbury, London, and 39, Rue de l'Echiquier, Paris, in the Empire of France, for an invention for—"Improvements in feeding steam-boilers."—*A communication.*
Letters Patent sealed.

BACHHOFFNER. 9th August 1855.

1805. GEORGE HENRY BACHHOFFNER, of Upper Montague Street, Montague Square, in the County of Middlesex, for an invention for—"Improvements in appropriating certain public erections for advertising purposes."—*Provisional protection only.*

SLEIGHT. 9th August 1855.

1806. THOMAS SLEIGHT, of 51, Mill Street, Hull, in the County of York, Herbalist and Druggist, for an invention for—"An improved compound for curing disorders of the bowels, cholera, diarrhœa, and dysentery." *Letters Patent sealed.*

ADAMS. 9th August 1855.

1807. WILLIAM BRIDGES ADAMS, of No. 1, Adam Street, Adelphi, in the County of Middlesex, Engineer, for an invention for—"Improvements in locomotive engines and their trains." *Stopped at fee.*

ROBERTSON. 9th August 1855.

1808. JAMES ROBERTSON, of the Patent Cask works, Commercial Road, in the County of Middlesex, Cooper, for an invention for—"Improvements in the manufacture of casks and other wooden vessels, and in machinery or apparatus for those purposes." *Provisional protection only.*

HEAVEN. 10th August 1855.

1809. ALFRED HEAVEN, of Longsight, near the City of Manchester, Embroiderer by machinery, for an invention for—"Improvements in machinery for embroidering fabrics." *Letters Patent sealed.*

MICKLE. 10th August 1855.

1810. WILLIAM MICKLE, of Willington, in the County of Durham, Colliery agent, for an invention for—"Improvements in smelting or producing iron from ore in blast furnaces." *Letters Patent sealed.*

LANCASTER. SMITH. 10th August 1855.

1811. WILLIAM HENRY LANCASTER, of No. 1, Peach Place, Brownlow Hill, and JAMES SMITH, Timber merchant, Sefton Street, Toxteth Park, both of Liverpool, in the County of Lancaster, for an invention for—"Certain improvements in the manufacture of gas for illuminating, heating, and other purposes." *Letters Patent sealed.*

DURHAM. WYATT. 10th August 1855.

1812. GEORGE DURHAM, of No. 3, Drummond Crescent, Euston Square, and CORNELIUS WYATT, of 1, Conduit Street, Regent Street, for an invention for—"Improvements in the manufacture of grease for lubricating the axles of railway and other carriages, and the journals of machinery generally." *Letters Patent sealed.*

BETTELEY. 10th August 1855.

1813. JOSEPH BETTELEY, of Liverpool, in the County of Lancaster, Chain cable manufacturer, for an invention for—"Improvements in the manufacture of ships' chain cables." *Stopped at fee.*

FINCH. 10th August 1855.

1814. EDWARD FINCH, of Chepstow, for an invention for—"Improvements in machinery for discharging coals, minerals and other materials, from railway, tramway, and other waggons." *Letters Patent sealed.*

FINCH. 10th August 1855.

1815. EDWARD FINCH, of Chepstow, for an invention for—"Improvements in machinery for loading and unloading coal and other vessels." *Letters Patent sealed.*

MORIN. 10th August 1855.

1816. AUGUSTE MORIN, of Place de l'Hotel de Ville, No. 30, St. Etienne, Department de la Loire, France, for an invention for—"Improvements in the manufacture of artificial fuel." *Letters Patent sealed.*

STEVENS. 10th August 1855.

1817. JOHN LEE STEVENS, of Fish Street Hill, in the City of London, Civil Engineer, for an invention for—"Improvements in steam-boilers."—*Letters Patent sealed.*

LATOUR. LATOUR. 10th August 1855.

1818. PHILIPPE LATOUR, and MAURICE LATOUR, of Paris (France), and of 32, Essex Street, Strand, London, Manufacturers, for an invention for—"An improved machine to be used for cutting nails, and driving them into the shoe."
Letters Patent sealed.

LAGERGREN. 10th August 1855.

1819. PONTUS LAGERGREN, Chemist, of Stockholm, Sweden, and of 32, Essex Street, Strand, London, for an invention for—"Improvements in paddle-wheels."
Letters Patent sealed.

INNES. 10th August 1855.

1820. GEORGE ROSE INNES, of Valparaiso, in the Republic of Chili, at present residing in Birmingham, in the County of Warwick, Merchant, for an invention for—"Improvements in raising and lowering rolling blinds."—*A communication.*

Stopped at fiat.

ULLMER. ULLMER. 10th August 1855.

1821. EDWIN ULLMER, and WILLIAM ULLMER, both of Fetter Lane, in the City of London, Manufacturers, for an invention for—"Improvements in machines for cutting paper, card, and mill boards, and other like substances."—*Letters Patent sealed.*

BARAGNON. 11th August 1855.

1822. PAUL LOUIS PIERRE BARAGNON, of 17, Rue Duvivier, Paris, in the Empire of France, and of 4, South Street, Finsbury, London, Gentleman, for an invention for—"A certain apparatus for preserving and reckoning coin."

Provisional protection only.

HEWITT. 11th August 1855.

1823. THOMAS HEWITT, of Lorn Street, Chester Road, in the City of Manchester, Pattern maker, for an invention for—"Improvements in machinery for pulverizing and levigating by means of pestle and mortar." *Letters Patent sealed.*

PRETSCH. 11th August 1855.

1824. PAUL PRETSCH, of Islington, in the County of Middlesex, Photographer, for an invention for—"Improvements in the application of certain designs obtained on metallic surfaces by photographic and other agency." *Letters Patent sealed.*

GARDNER. 11th August 1855.

1825. JAMES GARDNER, of Plaistow, in the County of Essex, Gentleman, for an invention for—"Improvements in the manufacture of salt." *Letters Patent sealed.*

REEVES. 11th August 1855.

1826. CHARLES EVANS REEVES, of Edward Street, Portman Square, in the County of Middlesex, Doctor of Medicine, for an invention for—"Improvements in the construction of repeating fire-arms." *Letters Patent sealed.*

BROWN. 11th August 1855.

1827. WALTER BROWN, of 5, Catherine Street, Cornwall Road, Lambeth, for an invention for—"Improvements in the manufacture of sheet metal casks and kegs."

Letters Patent sealed.

TURLETTI. 11th August 1855.

1828. LOUIS TURLETTI, of 39, Rue de l'Echiquier, Paris, in the Empire of France, and of No. 4, South Street, Finsbury, London, Gentleman, for an invention for—"A portable alarm apparatus for the prevention of robbery by false keys &c."

Letters Patent sealed.

MORRISON. 11th August 1855.

1829. ALEXANDER CAMERON MORRISON, of 3, Acacia Place, St. John's Wood, in the County of Middlesex, for an invention for—"An improved compound or mixture for feeding horses and other cattle." *Letters Patent sealed.*

TOPHAM. 11th August 1855.

1830. EDMUND TOPHAM, of Mansfield Road, Nottingham, for an invention for—"Apparatus for cleansing out the sediment from the water in steam-boilers, and preventing incrustation of the same." *Letters Patent sealed.*

NORMANDY. 13th August 1855.

1831. LEWIS NORMANDY, of 67, Judd Street, Brunswick Square, in the County of Middlesex, for an invention for—"A new circular-weaving machine."—*A communication from Messrs Florence, Houguet, and Teston, of Verviers.* *Letters Patent sealed.*

GREGORY. 13th August 1855.

1832. WILLIAM JOHN GREGORY, of Leeds, in the County of York, Bedding manufacturer, for an invention for—"Improvements in the construction of camp furniture." *Letters Patent sealed.*

HANCOCK. 13th August 1855.

1833. WALTER HANCOCK, of Upper Chadwell Street, Pentonville, in the County of Middlesex, for an invention for—"Improvements in the manufacture of casks or barrels or of the linings of the same, and which improvements are also applicable to other hollow vessels." *Letters Patent sealed.*

HORSFIELD. 13th August 1855.

1834. WILLIAM HORSFIELD, of Langley Mill, in the County of Derby, for an invention for—"Improvements in the construction of axle-boxes for railway carriages."

Provisional protection only.

DRAPER. DRAPER. 13th August 1855.

1835. EBENEZER DAGGETT DRAPER, and GEORGE DRAPER, of the State of Massachusetts, of the United States of America, for an invention for—"An improved vessel or can for oiling machinery."—*A communication.* *Letters Patent sealed.*

BLACKBURN. DUNCAN. 13th August 1855.

1836. ROBERT BLACKBURN, of Wandsworth Paper Mills, Wandsworth, and WILLIAM LUNDI DUNCAN, of Vale Cottage, Putney Vale, for an invention for—"Improvements in bleaching." *Letters Patent sealed.*

BUTLER. 13th August 1855.

1837. THOMAS BUTLER, of Willinghall, Staffordshire, for an invention for—"Improvements in locks." *Letters Patent sealed.*

THORNTON. THORNTON. 13th August 1855.

1838. ALBERT THORNTON, and FREDERICK THORNTON, both of the Town and County of Nottingham, Mechanical Designers, for an invention for—"Improvements in the manufacture of elastic or knitted plush or piled fabrics for hats and other purposes." *Letters Patent sealed.*

KEMPSON. 14th August 1855.

1839. THOMAS KEMPSON, of Birmingham, in the County of Warwick, Engineer, for an invention for—"A new or improved steam-engine and boiler." *Letters Patent sealed.*

VENABLES. 14th August 1855.

1840. JOHN VENABLES, of Burslem, in the County of Stafford, China and Earthenware manufacturer, for an invention for—"Improvements in ornamenting articles made of clay and other similar plastic materials." *Stopped at fee.*

SANDERS. DONOVAN. 14th August 1855.

1841. GILBERT SANDERS, of the City of Dublin, in Ireland, Gas Engineer, and RICHARD EDWARD DONOVAN, of Courteduffe, at Castleknock, in the County of Dublin, in Ireland, Gentleman, for an invention for—"Improvements in maintaining the level of the water or other liquid in gas-meters and steam-boilers, and regulating or controlling the action of such apparatus." *Letters Patent sealed.*

SHEARS. 14th August 1855.

1842. GEORGE SHEARS, of East Place, Kennington Road, in the County of Surrey, Stereoscope manufacturer, for an invention for—"An improved construction of stereoscope." *Letters Patent sealed.*

MELLOR. 14th August 1855.

1843. MARK MELLOR, of Hyde, in the County of Chester, Spinning manager, for an invention for—"Certain improvements in self-acting mules."—*Letters Patent sealed.*

MARION. 14th August 1855.

1844. LOUIS MARION, of 29, Rue du Grand Prieuré, in Paris for an invention for—"An apparatus for consuming smoke." *Provisional protection only.*

HADDAN. 14th August 1855.

1845. JOHN COOPE HADDAN, of Cannon Row, in the City of Westminster, Civil Engineer, for an invention for—"Improvements in the manufacture of cannon." *Letters Patent sealed.*

COGHLAN. 15th August 1855.

1846. JOHN COGHLAN, of Wexford, in the County of Wexford, Ireland, M.D., Member of the Royal College of Surgeons of England &c., for an invention for—"An improved method of pivoting artificial teeth." *Provisional protection only.*

POUGET. 15th August 1855.

1847. LOUIS AUGUSTE POUGET, Lamp manufacturer, of Paris (France), for an invention for—"Improvements in moderator-lamps." *Provisional protection only.*

STATHAM. SMITH. 15th August 1855.

1848. SAMUEL STATHAM, of Clondesley Street, in the County of Middlesex, Gentleman, and WILLOUGHBY SMITH, of Hoxton, in the same County, Mechanic, for an invention for—"Improvements in electric telegraph cables, or cores for the same." *Letters Patent sealed.*

NAPIER. 15th August 1855.

1849. GEORGE NAPIER, of Renfrew Street, Glasgow, in the County of Lanark, and of Adelphi, London, in the County of Middlesex, Engineer, for an invention for—"Constructing furnaces for marine and other boilers as well as for other furnaces, together with the apparatus employed therein for the purpose of heating the air previous to entering the furnace or furnaces, and for consuming the smoke, and the saving of fuel." *Provisional protection only.*

NEWTON. 15th August 1855.

1850. ALFRED VINCENT NEWTON, of the Office for Patents, 66, Chancery Lane, in the County of Middlesex, Mechanical Draughtsman, for an invention for—"Improved machinery for manufacturing railroad chairs."—*A communication.* *Letters Patent sealed.*

AVERY. 15th August 1855.

1851. JOHN AVERY, of 32, Essex Street, Strand, London, Patent agent, for an invention for—"An improved apparatus to be applied to drawers to secure them, and to give notice when any attempt is made to open the same by any improper person."—*A communication.* *Letters Patent sealed.*

JOHNSON. 15th August 1855.

1852. JOHN HENRY JOHNSON, of 47, Lincoln's Inn Fields, in the County of Middlesex, and of Glasgow, North Britain, Gentleman, for an invention for—"Improvements in reins."—*A communication from Monsieur Sala.*

Provisional protection only.

BARBER. 15th August 1855.

1853. JOHN BARBER, of Manchester, in the County of Lancaster, Engraver to calico printers, for an invention for—"Certain improvements in steam-engines."

Letters Patent sealed.

MAY. 15th August 1855.

1854. FRANCIS MAY, of Tooley Street, Southwark, Merchant, for an invention for—"Improvements in obtaining instantaneous light."—*A communication from Johan Edward Lundström, of Jönköping, Sweden.* *Letters Patent sealed.*

FONTAINEMOREAU. 16th August 1855.

1855. PETER ARMAND LE COMTE DE FONTAINEMOREAU, of 4, South Street, Finsbury, London, and 39, Rue de l'Echiquier, Paris, in the Empire of France, for an invention for—"Certain improvements in Jacquard machines."—*A communication from C. Vai, and G. Bernardi, of Turin.* *Letters Patent sealed.*

STOCQUELER. SAUNDERS. 16th August 1855.

1856. JOACHIM HAYWARD STOCQUELER, of Regent Street, in the County of Middlesex, Gentleman, and WILLIAM JAMES BUCHANAN SAUNDERS, of Southwark, in the County of Surrey, Gentleman, for an invention for—"Improved mechanical means for obtaining elevations." *Letters Patent sealed.*

WILLIAMS. 16th August 1855.

1857. THOMAS WILLIAMS, of Liverpool, in the County of Lancaster, Gunmaker, for an invention for—"Improvements in breach loading fire-arms, and in the mode or method of loading the same." *Provisional protection only.*

JOYNER. 16th August 1855.

1858. CHARLES JOYNER, of Birmingham, in the County of Warwick, Brass-founder, for an invention for—"A new or improved tap or stopcock for liquids and gases." *Provisional protection only.*

SHANKS. 16th August 1855.

1859. ANDREW SHANKS, Engineer, 6, Robert Street, Adelphi, Westminster, for an invention for—"Certain improvements in machines for cutting or shaping nuts."

Provisional protection only.

PAGET. 16th August 1855.

1860. FREDERICK PAGET, of Vienna, for an invention for—"An improved holder for steel or other pens by which ink is supplied to them."—*A communication.*

Stopped at fiat.

ROWLEY. 16th August 1855.

1861. CHARLES ROWLEY, Gentleman, of Birmingham, in the County of Warwick, for an invention for—"Improvements in elastic bands." *Letters Patent sealed.*

ATHERTON. BOYES. 16th August 1855.

1862. JOHN ATHERTON, of Preston, in the County of Lancaster, Machine maker, and WILLIAM BOYES, of the same place, Manufacturer, for an invention for—"Improvements in looms for weaving." *Provisional protection only.*

MONK. 16th August 1855.

1863. SAMUEL MONK, Engineer, of Bridge Street, Smethwick, in the County of Stafford, for an invention for—"Improvements in bricks for draining, sewering, and other purposes." *Provisional protection only.*

FAWCETT. FAWCETT. 16th August 1855.

1864. WILLIAM FAWCETT, and FRANCIS BEST FAWCETT, both of Kidderminster, in the County of Worcester, for an invention for—"Improvements in the manufacture of carpets and similar fabrics, and in apparatus used therein." *Letters Patent sealed.*

HUDSON. 16th August 1855.

1865. WILLIAM HUDSON, of Burnley, in the County of Lancaster, Machinist, for an invention for—"Certain improvements in the construction of stop rods or protectors in power-looms for weaving." *Letters Patent sealed.*

MAYNES. 16th August 1855.

1866. WILLIAM MAYNES, of Stockport, in the County of Chester, Agent, for an invention for—"Certain improvements in self-acting temples to be used in weaving."

Letters Patent sealed.

BAKER. 16th August 1855.

1867. WILLIAM EMERSON BAKER, of Cannon Street West, in the City of London, Gentleman, for an invention for—"Improvements in sewing-machines."—*A communication.* *Letters Patent sealed.*

DANDURAN. 17th August 1855.

1868. JEAN JACQUES DANDURAN, of 39, Rue de l'Echiquier, Paris, in the Empire of France, and 4, South Street, Finsbury, London, Civil Engineer, for an invention for—"Improvements in diving-apparatus." *Letters Patent sealed.*

FENTON. 17th August 1855.

1869. JOSEPH FENTON, of Lancaster, in the County of Lancaster, for an invention for—" A guard or apparatus to be used with moderator lamps." *Provisional protection only.*

BROWN. BROWN. 17th August 1855.

1870. DAVID BROWN, of Smethwick, in the County of Stafford, Machinist, and JEREMIAH BROWN, of Kingswinford, in the County of Stafford, Machinist, for an invention for—" New or improved machinery for the manufacture of bayonets." *Letters Patent sealed.*

COLLIER. 17th August 1855.

1871. GEORGE COLLIER, of Halifax, in the County of York, for an invention for —" Improvements in weaving plush by power, parts of which improvements are applicable when weaving other fabrics." *Letters Patent sealed.*

EDGE. 17th August 1855.

1872. THOMAS EDGE, of Great Peter Street, Westminster, Gas apparatus manufacturer, for an invention for—" An improvement in the manufacture of gas-meters, and other articles for containing and supplying gas." *Provisional protection only.*

HEYS. 18th August 1855.

1873. EDWARD HEYS, of Great Jackson Street, Hulme, in the City of Manchester, Pawnbroker, for an invention for—" Improvements in flyers used in preparing and spinning cotton and other fibrous materials." *Letters Patent sealed.*

SANGSTER. 18th August 1855.

1874. WILLIAM SANGSTER, of 75, Cheapside, for an invention for—" An improvement in the manufacture of umbrellas and parasols." *Letters Patent sealed.*

CRAWFORD. 18th August 1855.

1875. ROBERT CRAWFORD, of Beith, in the County of Ayr, North Britain, Merchant, for an invention for—" Improvements in ornamental weaving by jacquard looms." *Letters Patent sealed.*

HENRY. 18th August 1855.

1876. OMER JEAN HENRY, of 39, Rue de l'Echiquier, Paris, in the Empire of France, and of 4, South Street, Finsbury, London, Gentleman, for an invention for—" Improvements in bookbinding." *Provisional protection only.*

SAVAGE. 18th August 1855.

1877. ALFRED SAVAGE, of Eastcheap, in the City of London, Machinist, for an invention for—" Improvements in the means or mechanism for treating tea, sugar, coffee, chicory, and such substances as require the processes of separation, reduction of size, and mixing, or any one or two thereof." *Letters Patent sealed.*

TAVERNIER. 18th August 1855.

1878. FERDINAND TAVERNIER, of Paris, in the Empire of France, for an invention for—" Improvements in apparatus employed in combing wool and other fibrous substances." *Provisional protection only.*

DE NORMANDY. 20th August 1855.

1879. ALPHONSE RENÉ LE MIRE DE NORMANDY, of 67, Judd Street, Brunswick Square, in the County of Middlesex, Analytical Chemist, for an invention for—" Certain improvements in the manufacture of soap." *Letters Patent sealed.*

DUBRULLE. 20th August 1855.

1880. ANDRÉ DUBRULLE, of Lille (Nord), in the Empire of France, Lamp manufacturer, for an invention for—" Improvements in safety lamps." *Letters Patent sealed.*

BAIN. 20th August 1855.

1881. ALEXANDER BAIN, of Westbourne Park Road, Paddington, in the County of Middlesex, for an invention for—" An instrument or apparatus for distributing liquids." *Letters Patent sealed.*

JOURNEAUX. 20th August 1855.

1882. FRANCIS JOURNEAUX, of Mount Shannon Mills, in the County of Dublin, Merchant, for an invention for—" Improvements in drying wheat and other grain." *Letters Patent sealed.*

SOELMAN. 20th August 1855.

1883. WILLIAM SOELMAN, of 3, Bennett Street, Fitzroy Square, in the County of Middlesex, for an invention for—" Improvements in the construction of propellers." *Letters Patent sealed.*

AVERY. 20th August 1855.

1884. WILLIAM AVERY, of Smethwick, near Birmingham, in the County of Warwick, Machinist, for an invention for —" A new or improved method of joining or connecting straps or bands used for transmitting motive-power."—*Letters Patent sealed.*

KNIGHTON. 20th August 1855.

1885. HENRY KNIGHTON, of Stamford, Carpenter and Joiner, for an invention for—" An improved construction of portable drill." *Letters Patent sealed.*

GONTIER. 20th August 1855.

1886. PIERRE GONTIER, of Paris, France, Chemist, for an invention for—"Improvements in treating linseed, poppy, and other oils employed in the mixing of paint." *Letters Patent sealed.*

BROWN. 20th August 1855.

1887. JOHN HARCOURT BROWN, of No. 4, Trafalgar Square, London, and at present of Boulogne sur Mer, in the Empire of France, for an invention for—"Improvements in the construction of ball cartridges for facilitating the loading and lubricating of fire-arms." *Provisional protection only.*

LONGSDON. 21st August 1855.

1888. ROBERT LONGSDON, of Queen Street Place, New Cannon Street, in the City of London, Architect and Civil Engineer, for an invention for—"Improvements in apparatus to be used for removing property into and out of strong rooms, and in the mode of securing such property from fire or theft." *Letters Patent sealed.*

LEWIS. 21st August 1855.

1889. GEORGE LEWIS, of High Cross Street, Leicester, in the County of Leicester, Locksmith, for an invention for—"The making of taps and cocks of glass." *Provisional protection only.*

LEWIS. 21st August 1855.

1890. GEORGE LEWIS, of High Cross Street, Leicester, in the County of Leicester, Locksmith, for an invention for—"Improvements in gloves cut out with a knife and rotary press." *Letters Patent sealed.*

CORNES. 21st August 1855.

1891. JOHN CORNES, of Swan Lane, in the City of London, for an invention for—"An improved method for consuming smoke." *Letters Patent sealed.*

MEINIG. KUKLA. 21st August 1855.

1892. CARL LUDWIG AUGUSTUS MEINIG, of Piccadilly, and FRANZ XAVER KUKLA, of Raven Row, Mile End, both in the County of Middlesex, for an invention for—"Improvements in ornamenting surfaces." *Provisional protection only.*

ORANGE. 21st August 1855.

1893. JAMES ORANGE, of Nottingham, Engineer, for an invention for—"Improvements in apparatus for covering yarns or other cores." *Letters Patent sealed.*

PAIGE. 21st August 1855.

1894. LUCIUS PAIGE, of the State of Vermont, of the United States of America, for an invention for—"Certain new and useful improvements in break mechanism for railway carriages." *Letters Patent sealed.*

FIELD. 21st August 1855.

1895. EDWARD FIELD, of the firm of M'Glashan and Field, of the Coal Yard, Drury Lane, Engineers, for an invention for—"Improvements in presses or machinery for embossing or colouring." *Letters Patent sealed.*

WORMALD. POLLARD. 21st August 1855.

1896. JOSEPH WORMALD, and GEORGE POLLARD, both of 2, Bridge Foot, Vauxhall, in the County of Surrey, Engineers, for an invention for—"Improvements in ratchet braces." *Provisional protection only.*

DE BUSSAC. 22nd August 1855.

1897. JACQUES FRANÇOIS DUPONT DE BUSSAC, of Brussels, and of 32, Essex Street, Strand, London, for an invention for—"The combination of hydriodic acid watery or oily or salts of iodine, with tannic acid, the constituting parts of cinchona or of sarsaparilla, or of the leaves of the walnut tree, and iron, or with one or several of these bodies." *Letters Patent sealed.*

VAN DEN BERGH. 22nd August 1855.

1898. CHARLES VAN DEN BERGH, of Lacken, in the Kingdom of Belgium, Gentleman, for an invention for—"An improvement in the mode of packing pistons of steam and other engines." *Letters Patent sealed.*

BLUM. 22nd August 1855.

1899. MICHEL BLUM, of Ilzach, H^t Rhin, France, and 32, Essex Street, Strand, London, Tailor, for an invention for—"An improved hood."—*Provisional protection only.*

SPENCE. 22nd August 1855.

1900. WILLIAM SPENCE, of 50, Chancery Lane, in the County of Middlesex, Patent agent, for an invention for—"Improvements in machinery for dressing and finishing cloth."—*A communication from Dominique Beck, of Elbœuf, in the Empire of France, Mechanician.* *Provisional protection only.*

LOWNDS. 22nd August 1855.

1901. JACOB J. LOWNDS, of the City and State of New York, in the United States of America, for an invention for—"An improved extension pen and pencil case." *Letters Patent sealed.*

PITT. DAVIES. 22nd August 1855.

1902. WILLIAM PITT, and EDWARD TURNER DAVIES, of Birmingham, in the County of Warwick, Brass founders, for an invention for—"Improvements in the manufacture of cornice poles and picture rods, and in rings and chains to be used in connection therewith."—*Complete specification.* *Letters Patent sealed.*

ZINKERNAGÉL. 23rd August 1855.

1903. JULES THEODORE ALEXANDRE ZINKERNAGÉL, Mosaic maker, of Paris, France, for an invention for—"Improvements in the manufacture of mosaic-work." *Letters Patent sealed.*

WYCHE. 23rd August 1855.

1904. THOMAS EYRE WYCHE, of Camberwell, in the County of Surrey, Gentleman, for an invention for—"Improvements in propelling vessels." *Letters Patent sealed.*

JONES. 23rd August 1855.

1905. WRIGHT JONES, of Pendleton, in the County of Lancaster, Engineer, for an invention for—"Improvements in machinery or apparatus for printing woven fabrics and paper hangings." *Letters Patent sealed.*

CLAUS. 23rd August 1855.

1906. CHARLES CLAUS, of Liverpool, in the County of Lancaster, Practical Chemist, for an invention for—"Improvements in removing hairs from hides and skins." *Letters Patent sealed.*

FOUCHIER. 23rd August 1855.

1907. VICTOR FOUCHIER, of 53, Rue de l'Echiquier, Paris, in the Empire of France, and of No. 4, South Street, Finsbury, London, Gent., for an invention for—"Improvements in constructing and preparing mill-stones." *Letters Patent sealed.*

PAROD. 23rd August 1855.

1908. ERNEST PAROD, of 59, Rue de l'Echiquier, Paris, in the Empire of France, and of 4, South Street, Finsbury, London, Gentleman, for an invention for—"Certain improvements in the steering of steam and other vessels."—*Provisional protection only.*

MARTIEN. 23rd August 1855.

1909. JOSEPH GILBERT MARTIEN, of Newark, New Jersey, in the United States of America, but now residing in London, for an invention for—"Improvements in preparing certain oxydes of iron for use, and for apparatus to be used therein." *Letters Patent sealed.*

DENTON. 23rd August 1855.

1910. WILLIAM DENTON, of Addingham, Yorkshire, Machine wool-combers, for an invention for—"Improvements in drawing wool and other fibrous substances of the combs of combing machines." *Letters Patent sealed.*

THOMAS. 23rd August 1855.

1911. WILLIAM LYNALL THOMAS, of Chapel Place, in the County of Middlesex, Gentleman, for an invention for—"Improvements in projectiles."—*Letters Patent sealed.*

KIDMAN. 23rd August 1855.

1912. WILLIAM KIDMAN, of Poplar, in the County of Middlesex, Shipwright, for an invention for—"An improvement in tillers or yokes." *Letters Patent sealed.*

BARTLETT. 23rd August 1855.

1913. THOMAS BARTLETT, C.E., of Chambery, Savoy, in the Kingdom of Sardinia, for an invention for—"Improvements in machinery for drilling or boring into stone." *Letters Patent sealed.*

ARCHER. 24th August 1855.

1914. FREDERICK SCOTT ARCHER, of Great Russell Street, Bloomsbury, in the County of Middlesex, Photographer, for an invention for—"Certain improvements in photography." *Letters Patent sealed.*

WOOD. 24th August 1855.

1915. WILLIAM WOOD, of Monkhill, near Pontefract, in the County of York, for an invention for—"Improvements in the manufacture of pile and other fabrics." *Letters Patent sealed.*

FROOMS. 24th August 1855.

1916. HENRY FROOMS, of the City of Manchester, in the County of Lancaster, Piano-forte manufacturer, for an invention for—"Improvements in the manufacture of piano-fortes." *Provisional protection only.*

GOODING. 24th August 1855.

1917. WILLIAM SMITH GOODING, of the City of Manchester, in the County of Lancaster, for an invention for—"A Tailor's clay cutter."—*Provisional protection only.*

DE LA RUE. 24th August 1855.

1918. THOMAS DE LA RUE, of Bunhill Row, in the County of Middlesex, for an invention for—"An improvement in printing-inks." *Letters Patent sealed.*

RADIGUET. 24th August 1855.

1919. TOUSSAINT AUGUSTE RADIGUET, Civil Engineer, of Longjeaumeau, French Empire, for an invention for—"An improved dynamical apparatus for motive-power." *Provisional protection only.*

EFFERTZ. 24th August 1855.

1920. PETER EFFERTZ, of Aix-la-Chapelle, in the Kingdom of Prussia, Engraver, for an invention for—"Improvements in machinery for making bricks, pipes, tiles, and other similar articles." *Provisional protection only.*

SCHLICKEYSEN. 24th August 1855.

1921. C. SCHLICKEYSEN, of Berlin, in the Kingdom of Prussia, Machinist, for an invention for—"Improvements in machinery for manufacturing pipes, bricks, and tiles." *Letters Patent sealed.*

AVERY. 25th August 1855.

1922. JOHN AVERY, of 32, Essex Street, Strand, London, Patent agent, for an invention for—"Improvements in handles for augers, gimlets, and other tools and instruments to which such handles may be applicable."—*A communication.* *Letters Patent sealed.*

AVERY. 25th August 1855.

1923. JOHN AVERY, of 32, Essex Street, Strand, London, Patent agent, for an invention for—"Certain new and useful apparatus for exhausting and closing vessels."—*A communication.* *Letters Patent sealed.*

AVERY. 25th August 1855.

1924. JOHN AVERY, of 32, Essex Street, Strand, London, Patent agent, for an invention for—"Automatic attachments to be applied to gates and doors."—*A communication.* *Letters Patent sealed.*

AVERY. 25th August 1855.

1925. JOHN AVERY, of 32, Essex Street, Strand, London, Patent agent, for an invention for—"Improvements in sewing-machines."—*A communication.* *Letters Patent sealed.*

BROWN. 25th August 1855.

1926. WILLIAM BROWN, of Handsworth, in the County of Stafford, Commercial Traveller, for an invention for—"Improvements in the manufacture of paper bags." *Letters Patent sealed.*

STANSBURY. 25th August 1855.

1927. CHARLES FREDERICK STANSBURY, of the firm of Nourse & Co., American and General Patent agents, of No. 67, Gracechurch Street, London, for an invention for—"An improved mill for grinding."—*A communication from Amory Felton, of Troy, in the State of New York, and United States of America.* *Letters Patent sealed.*

STANSBURY. 25th August 1855.

1928. CHARLES FREDERICK STANSBURY, of the firm of Nourse & Co., American and General Patent agents, of No. 67, Gracechurch Street, London, for an invention for—"An improved shirt wristband."—*A communication from Rufus K. Chandler, of Richmond, Virginia, in the United States of America.* *Letters Patent sealed.*

CARLESS. 25th August 1855.

1929. EUGENE CARLESS, of the East London Works, Mile End, in the County of Middlesex, for an invention for—"Improvements in the manufacture of artificial leather suitable for book binding and other purposes." *Letters Patent sealed.*

HARDY. FORDOFF. 25th August 1855.

1930. ADAM HALL HARDY, and JACOB HARDY FORDOFF, both of North Brierly, in the County of York, for an invention for—"A compound pill and ointment for the cure of scorbutic and similar disorders of the human body." *Letters Patent sealed.*

LE FRANÇOIS. 25th August 1855.

1931. HONORÉ LE FRANÇOIS, of Vauxhall, in the County of Surrey, for an invention for—"An apparatus for cleaning stew-pans and other similar culinary utensils." *Provisional protection only.*

RUALEM. 27th August 1855.

1932. FRANÇOIS RUALEM, of No. 29, Rue de Paris, à Belleville, France, Milkman, for an invention for—"A new process for manufacturing fuel for household and general purposes, called 'The Imperial Coal.'" *Stopped at fiat.*

CAPRON. 27th August 1855.

1933. CELSE EUGENE CAPRON, of 4, South Street, Finsbury, London, and 39, Rue de l'Echiquier, Paris, in the Empire of France, Gentleman, for an invention for—"An improved cupping apparatus." *Letters Patent sealed.*

ROBSON. 27th August 1855.

1934. JOHN WOORDSWOORTH ROBSON, of 23, Grundy Street, Poplar New Town, in the County of Middlesex, Engineer, for an invention for—"Improvements in water-closets." *Provisional protection only.*

COOLING. 27th August 1855.

1935. THOMAS ALEXANDER COOLING, of Temple Chambers, Whitefriars, for an invention for—"Improvements in pumps." *Letters Patent sealed.*

HUMFREY. 27th August 1855.

1936. CHARLES HUMFREY, the younger, of No. 14, Terrace, Camberwell, in the County of Surrey, for an invention for—"Improvements in the manufacture of fatty and oily acids." *Letters Patent sealed.*

SAUTELET. 27th August 1855.

1937. EMILE CONSTANTIN FRITZ SAUTELET, Manufacturer, of Paris, in the French Empire, for an invention for—"An improved impermeable cloth or fabric for sheltering, covering, and preserving in various purposes." *Letters Patent sealed.*

SMITH. 27th August 1855.

1938. JAMES SMITH, of the City of Bristol, Surgical instrument maker, for an invention for—"Improvements in children's carriages or perambulators, and invalid carriages." *Letters Patent sealed.*

LUDBROOK. 27th August 1855.

1939. SAMUEL LUDBROOK, of Mile End, in the County of Middlesex, Manufacturer, for an invention for—"Improvements in railway wheels."—*Letters Patent sealed.*

JOHNSON. 27th August 1855.

1940. WILLIAM JOHNSON, of 47, Lincoln's Inn Fields, in the County of Middlesex, and of Glasgow, North Britain, Civil Engineer, for an invention for—"Improvements in machinery or apparatus for rolling or shaping metals."—*A communication from Jackson, Brothers, Petin, Gaudet, and Company, of Rive de Gier, in the Empire of France, Engineers.* *Letters Patent sealed.*

JOHNSON. 27th August 1855.

1941. WILLIAM JOHNSON, of 47, Lincoln's Inn Fields, in the County of Middlesex, and of Glasgow, North Britain, Civil Engineer, for an invention for—"Improvements in railway breaks."—*A communication from Dominique Didier, of Vocion, in the Empire of France.* *Letters Patent sealed.*

HUMFREY. 27th August 1855.

1942. CHARLES HUMFREY, the younger, of No. 14, Terrace, Camberwell, in the County of Surrey, for an invention for—"The application of certain products of fatty and oily matters to the manufacture of candles and other uses." *Letters Patent sealed.*

ESPLIN. 27th August 1855.

1943. CHARLES ESPLIN, of 21, Windmill Street, Church Street, Lambeth, for an invention for—"Improvements in apparatus for regulating the supply of gas." *Letters Patent sealed.*

NEWTON. 27th August 1855.

1944. ALFRED VINCENT NEWTON, of the Office for Patents, 66, Chancery Lane, in the County of Middlesex, Mechanical Draughtsman, for an invention for—"Improvements in separating substances of different specific gravities."—*A communication.* *Letters Patent sealed.*

BELLFORD. 27th August 1855.

1945. AUGUSTE EDOUARD LORADOUX BELLFORD, of 32, Essex Street, Strand, London, Patent agent, for an invention for—"Improvements in percussion guns."—*A communication from Comte Pierre Beltrami, of Paris.* *Letters Patent sealed.*

MOORE. 27th August 1855.

1946. BENJAMIN MOORE, of New York, United States, but now of Paris, Empire of France, and of 46, Regent Street, Middlesex, for an invention for—"Improvements in sewing-machines."—*A communication.* *Letters Patent sealed.*

HOPKINSON. 28th August 1855.

1947. JOSEPH HOPKINSON, junior, of Huddersfield, in the County of York, Engineer, for an invention for—"Improvements in furnaces." *Stopped at fiat.*

FOURDRINIER. 28th August 1855.

1948. EDWARD NEWMAN FOURDRINIER, of 22, Percy Circus, Pentonville, for an invention for—"Improvements in machines for cleaning table knives." *Letters Patent sealed.*

BROOMAN. 28th August 1855.

1949. RICHARD ARCHIBALD BROOMAN, of 166, Fleet Street, in the City of London, Patent agent, for an invention for—"Improvements in umbrellas."—*A communication.* *Letters Patent sealed.*

BOOTH. 29th August 1855.

1950. JAMES BOOTH, of the City of Manchester, Engineer, for an invention for—"Improvements in machinery for drilling and boring." *Provisional protection only.*

ROSSON. 29th August 1855.

1951. CHARLES POPE ROSSON, of Manchester, in the County of Lancaster, Brush manufacturer, for an invention for—"Certain improvements in machinery or apparatus employed for dressing and finishing textile fabrics, by the application of a new material in the place of hogs' bristles or wire cards hitherto employed therein." *Stopped at fiat.*

STANSBURY. 29th August 1855.

1952. CHARLES FREDERICK STANSBURY, of the firm of Nourse & Co., American and General Patent agents, of No. 67, Gracechurch Street, London, for an invention for—"An improved seed planter."—*A communication from Edgar M. Stevens, Joseph B. Crosby, and J. W. Pearson, all of Massachusetts, in the United States of America.* *Provisional protection only.*

HANSON. 29th August 1855.

1953. JOHN HANSON, of Doagh, Belfast, in the County of Antrim, Ireland, Land agent and Farmer, for an invention for—"Improvements in machinery or apparatus for digging or working land and removing roots or plants therefrom." *Letters Patent sealed.*

RADCLIFFE. 29th August 1855.

1954. CHARLES RADCLIFFE, of Sowerby Bridge, in the City of York, Manufacturer, for an invention for—"A machine or apparatus for moistening or 'damping' woollen or other textile fabrics for finishing." *Letters Patent sealed.*

MORE. 30th August 1855.

1955. JAMES MORE, of Glasgow, in the County of Lanark, North Britain, Rivet manufacturer, for an invention for—"Improvements in marine and surveying compasses." *Letters Patent sealed.*

GEDGE. 30th August 1855.

1956. JOHN GEDGE, of No. 4, Wellington Street South, Strand, in the County of Middlesex, Patent agent, for an invention for—"Improvements in galvanizing substances."—*A communication from Jacques Joseph Hyppolite Mailly, of Paris.* *Provisional protection only.*

GEDGE. 30th August 1855.

1957. JOHN GEDGE, of No. 4, Wellington Street South, Strand, in the County of Middlesex, Patent agent, for an invention for—"Improvements in the manufacture of casks."—*A communication from Michel Lavaud, of Libourne, France.* *Provisional protection only.*

STANSBURY. 30th August 1855.

1958. CHARLES FREDERICK STANSBURY, of the firm of Nourse & Co., American and General Patent agents, of No. 67, Gracechurch Street, London, for an invention for—"An improved plane-iron."—*A communication from Henry A. Bleckmann, of Ronsdorf, in Prussia.* *Provisional protection only.*

STANSBURY. 30th August 1855.

1959. CHARLES FREDERICK STANSBURY, of the firm of Nourse & Co., American and General Patent agents, of No. 67, Gracechurch Street, London, for an invention for—"An improved changeable lock."—*A communication from Henry A. Bleckmann, of Ronsdorf, in Prussia.* *Letters Patent sealed; no specification filed.*

STANSBURY. 30th August 1855.

1960. CHARLES FREDERICK STANSBURY, of the firm of Nourse & Co., American and General Patent agents, of No. 67, Gracechurch Street, London, for an invention for—"A machine for splitting leather and for analogous purposes."—*A communication from M. H. Merrian, and Joseph B. Crosby, of Massachusetts, in the United States of America.* *Provisional protection only.*

JUKES. 30th August 1855.

1961. JOHN JUKES, of 18, Baker Street, Lloyd Square, Islington, for an invention for—"Improvements in furnaces." *Letters Patent sealed.*

JENNINGS. 30th August 1855.

1962. HENRY CONSTANTINE JENNINGS, of 8, Great Tower Street, Practical Chemist, for an invention for—"An improved compound or medicine for cholera and diarrhœa." *Provisional protection only.*

GOSSAGE. 30th August 1855.

1963. WILLIAM GOSSAGE, of Widnes, in the County of Lancaster, Chemist, for an invention for—"Improvements in the manufacture of carbonates of ammonia, and in the useful application of such carbonates." *Letters Patent sealed.*

CHARTON. 30th August 1855.

1964. PAUL EUGÈNE CHARTON, Watch maker, of Troyes, Town in the French Empire, for an invention for—"An improved metallic manometer." *Letters Patent sealed.*

PALMER. 31st August 1855.

1965. WILLIAM RUSSELL PALMER, of the City and County and State of New York, in the United States of America, for an invention for—"Improvements in writing-desks which can be used in the dark or after a person has retired for the night, or by the blind or those with weak eyesight." *Provisional protection only.*

SCHRAMM. 31st August 1855.

1966. RUDOLPH SCHRAMM, of 6, Warwick Crescent, Harrow Road, Paddington, in the County of Middlesex, for an invention for—"A new process for treating cotton seed for the purpose of and previous to the obtaining of oil from it."—*A communication.* *Letters Patent sealed.*

GEDGE.
31st August 1855.

1967. JOHN GEDGE, of No. 4, Wellington Street South, Strand, in the County of Middlesex, Patent agent, for an invention for—"Improvements in kilns, ovens, or furnaces."—*A communication from Pierre Michel Roy, and Edme Joseph Desnoyers, both of Saint Verain, France.* *Letters Patent sealed.*

ROSE.
31st August 1855.

1968. GEORGE FREDERICK ROSE, Engraver and Printer, of Ann Street, Birmingham, in the County of Warwick, for an invention for—"Certain improvements in lithographic and copper plate printing presses." *Letters Patent sealed.*

HOPE.
HOPE.
31st August 1855.

1969. JOHN HOPE, and THOMAS HOPE, of the State of Rhode Island, of the United States of America, for an invention for—"An improved machine for engraving the surface of a calico printer's roller preparatory to its being etched."—*Complete specification.* *Letters Patent sealed.*

WHITE.
31st August 1855.

1970. JAMES WHITE, of East Street, in the County of Middlesex, Engineer, for an invention for—"Improved machinery for cutting soap into slabs, bars, and cakes."—*A communication.* *Letters Patent sealed.*

BUTCHER.
NEWEY.
1st September 1855.

1971. MATTHEW BUTCHER, of Birmingham, in the County of Warwick, Manufacturer, and THOMAS HENRY NEWEY, of Birmingham aforesaid, Machinist, for an invention for—"An improvement or improvements in the manufacture of bobbins used in winding, twisting, and weaving fibrous substances." *Letters Patent sealed.*

WINFIELD.
JACKSON.
1st September 1855.

1972. ROBERT WALTER WINFIELD, of Birmingham, in the County of Warwick, Merchant and Manufacturer, and JOHN JACKSON, of Birmingham aforesaid, Press tool maker, for an invention for—"Improvements in metallic bedsteads and other articles of metallic furniture." *Letters Patent sealed.*

DODDS.
1st September 1855.

1973. THOMAS DODDS, of 53, Wigmore Street, Cavendish Square, London, Military and Travelling Equipage manufacturer, for an invention for—"Improvements in the construction of an apparatus for heating all kinds of furnaces with coal or other gases." *Provisional protection only.*

JOB.
TOMLINSON.
1st September 1855.

1974. ALFRED MORTIMER JOB, of 22, Halliford Street, Lower Road, Islington, in the County of Middlesex, and EDWIN TOMLINSON, of Barns Cray, Crayford, in the County of Kent, for an invention for—"A new article to be called 'india-rubber leather cloth,' applicable to covering roofs, floors, trunks, and for other similar purposes." *Provisional protection only.*

CALVERT.
1st September 1855.

1975. FREDERICK GRACE CALVERT, of the City of Manchester, in the County of Lancaster, Professor of Chemistry, for an invention for—"Improvements in the treatment of heating, puddling, and refinery iron slags or cinders."—*Letters Patent sealed.*

AUSTEN.
1st September 1855.

1976. ALEXANDER ISAAC AUSTEN, of Belmont, Vauxhall, Engineer, for an invention for—"An improvement in the manufacture of candles and night lights." *Letters Patent sealed.*

PRIDEAUX.
1st September 1855.

1977. THOMAS SYMES PRIDEAUX, of Willow House, Hampstead, in the County of Middlesex, Engineer, for an invention for—"Improvements in marine steam-boiler furnaces and flues." *Letters Patent sealed.*

BENTLEY.
1st September 1855.

1978. THOMAS BENTLEY, of Margate, in the County of Kent, Ironmonger, for an invention for—"Improvements in apparatus for heating water or other fluids by gas." *Provisional protection only.*

NEWTON.
1st September 1855.

1979. ALFRED VINCENT NEWTON, of the Office for Patents, 66, Chancery Lane, in the County of Middlesex, Mechanical Draughtsman, for an invention for—"Improvements in the manufacture of gas for illumination."—*A communication.* *Letters Patent sealed.*

SMITH.
1st September 1855.

1980. WILLIAM SMITH, of 10, Salisbury Street, Adelphi, in the County of Middlesex, Civil Engineer, for an invention for—"An improved smoke consuming furnace."—*A communication.* *Letters Patent sealed.*

M'LIESH.
3rd September 1855.

1981. WILLIAM M'LIESH, of Belfast, in the County of Antrim, Ireland, Manufacturing Chemist, for an invention for—"Improvements in steam-boiler and other furnaces, and in the prevention of smoke." *Provisional protection only.*

HEAVEN.
3rd September 1855.

1982. ALFRED HEAVEN, of the City of Manchester, Embroiderer by machinery, for an invention for—"Improvements in embroidering fabrics."—*Letters Patent sealed.*

HOLDEN.
NICHOLAS.
3rd September 1855.

1983. GEORGE THOMAS HOLDEN, and RICHARD NICHOLAS, of Brook Street, Saint Paul's, Birmingham, in the County of Warwick, Manufacturers, for an invention for—"An improved roasting-jack." *Letters Patent sealed.*

LARMUTH.
SMITH.
3rd September 1855.

1984. THOMAS JOSEPH LARMUTH, of Salford, in the County of Lancaster, Machinist, and JOHN SMITH, of the same place, Machinist, for an invention for —"Improvements in machinery or apparatus for printing." *Letters Patent sealed.*

CHANCE.
ADCOCK.
3rd September 1855.

1985. JAMES TIMMINS CHANCE, of Birmingham, and HENRY ADCOCK, of the same place, for an invention for—"Improvements in casting articles of the slags produced by the smelting of iron and other ores." *Letters Patent sealed.*

JONES.
3rd September 1855.

1986. EDWARD GREENE JONES, of Smethwick, Staffordshire, Artist, for an invention for—"An improvement in flattening cylinders of sheet glass." *Letters Patent sealed.*

SY.
3rd September 1855.

1987. EDOUARD SY, Machinist, of Paris, in the Empire of France, and of 32, Essex Street, Strand, London, for an invention for—"A new method of obtaining motive-power." *Stopped at fiat.*

ZAHN.
3rd September 1855.

1988. WILLIAM HENRY ZAHN, of the City, County, and State of New York, but now residing in London, for an invention for—"Improvements in machinery for making covered or plated twist and cord." *Letters Patent sealed.*

FLYNN.
3rd September 1855.

1989. HENRY EDWARD FLYNN, of Retreat, Ranelagh, in the County of Dublin, Gentleman, for an invention for—"Making connections between and adapting appliances to locomotives and all descriptions of railway carriages, whereby the possibility of accidents resulting from the breakage or dislocation of their wheels or axles is prevented, or the chances thereof greatly diminished." *Provisional protection only.*

FLYNN.
3rd September 1855.

1990. HENRY EDWARD FLYNN, of Retreat, Ranelagh, in the County of Dublin, Gentleman, for an invention for—"Making signal communications between the guards and drivers of railway trains in transitu, and also in cases of accidents making cautionary signals to trains approaching either from before or behind." *Provisional protection only.*

HUMBY.
3rd September 1855.

1991. JOHN HUMBY, of No. 47, Little Britain, in the City of London, Surgeon Dentist, for an invention for—"An improved machine for cutting vegetables." *Letters Patent sealed.*

GILBEE.
3rd September 1855.

1992. WILLIAM ARMAND GILBEE, of No. 4, South Street, Finsbury, London, Gentleman, for an invention for—"Improvements in the production of carburetted hydrogen gas."—*A communication from Monsieur Salmon, of Paris.* *Letters Patent sealed.*

GOLDING.
3rd September 1855.

1993. GEORGE HEARNDEN GOLDING, of Maidstone, in the County of Kent, Engineer, for an invention for—"A tool or apparatus to be used in the blocking and lasting of leather, and in other cases where a covering is required to be drawn over a solid substance." *Letters Patent sealed.*

GOLDING.
PAINE.
3rd September 1855.

1994. GEORGE HEARNDEN GOLDING, of Maidstone, in the County of Kent, Engineer, and THOMAS PAINE, of Blackheath, in the same County, Bootmaker, for an invention for—"Improvements in the manufacture of boots, shoes, clogs, and other like coverings for the feet." *Letters Patent sealed.*

CLARK.
CLARK.
4th September 1855.

1995. CYPRUS CLARK, and JAMES CLARK, both of Street, near Glastonbury, in the County of Somerset, Rug manufacturers, for an invention for—"Improvements in the manufacture of boots and shoes." *Letters Patent sealed.*

WOODCOCK.
BLACKBURN.
SMALLEY.
4th September 1855.

1996. WILLIAM WOODCOCK, and THOMAS BLACKBURN, of Over Darwen, in the County of Lancaster, and JAMES SMALLEY, of Blackburn, in the same County, for an invention for—"Improvements in the pistons of steam-engines, which improvements are also applicable to pump buckets." *Letters Patent sealed.*

TAYLOR. 4th September 1855. — 1997. JOHN GEORGE TAYLOR, of Glasgow, in the County of Lanark, North Britain, for an invention for—"Improvements in coating, covering, or plating metallic surfaces." *Provisional protection only.*

JAMES. 4th September 1855. — 1998. WILLIAM HENRY JAMES, of Camberwell, in the County of Surrey, Civil Engineer, for an invention for—"Improvements in steam-engines." *Letters Patent sealed.*

CONIAM. 4th September 1855. — 1999. THOMAS TAYLOR CONIAM, of Chagford, Devon, for an invention for—"Improvements in tiles for roofing." *Letters Patent sealed.*

FOSTER. 4th September 1855. — 2000. DAVID GEORGE FOSTER, of Pentonville, in the County of Middlesex, for an invention for—"Improved means of supporting or training plants." *Provisional protection only.*

MUELLER. 4th September 1855. — 2001. CHARLES GUSTAV MUELLER, of the State of South Carolina, of the United States of America, for an invention for—"Certain new and useful improvements in locks for doors." *Letters Patent sealed.*

DE LA RUE. 4th September 1855. — 2002. WARREN DE LA RUE, of Bunhill Row, in the County of Middlesex, for an invention for—"Improvements in treating Burmese naphtha when obtaining products therefrom." *Letters Patent sealed.*

GILBEE. 4th September 1855. — 2003. WILLIAM ARMAND GILBEE, of No. 4, South Street, Finsbury, London, Gentleman, for an invention for—"Improvements in the manufacture of glass."—*A communication from Monsieur Salmon, of Paris.* *Letters Patent sealed.*

MOREL. 4th September 1855. — 2004. AUGUSTIN MOREL, of Roubaix, France, and No. 4, South Street, Finsbury, London, Wool-comber, for an invention for—"Certain improvements in machinery for preparing fibrous materials to be combed or spun." *Letters Patent sealed.*

SOUTHWELL. 4th September 1855. — 2005. WILLIAM SOUTHWELL, of Philadelphia, State of Pennsylvania, in the United States of America, for an invention for—"Certain improvements in machinery for grinding or polishing saws or other articles." *Letters Patent sealed.*

BULL. 4th September 1855. — 2006. JAMES HENRY BULL, of West Farms, in the County of Westchester, and State of New York, United States of America, for an invention for—"Improvements in fountain inkstands." *Letters Patent sealed.*

INGALL. 5th September 1855. — 2007. GEORGE HENRY INGALL, of Bartholomew Lane, Bank, in the City of London, Gent", for an invention for—"Certain improvements in railway self acting signal posts and apparatus connected therewith." *Provisional protection only.*

CRAYMER. 5th September 1855. — 2008. WILLIAM CRAYMER, of Bristol, in the County of Gloucester, Carver, for an invention for—"Improvements in propelling vessels." *Letters Patent sealed.*

COLLIER. 5th September 1855. — 2009. GEORGE COLLIER, of Halifax, in the County of York, for an invention for—"Improvements in the manufacture of carpets and other pile fabrics." *Letters Patent sealed.*

PALMIÉRI. FERRARI. 5th September 1855. — 2010. AGOSTINO PALMIÉRI, and JEAN BAPTISTE FERRARI, of 39, Rue de l'Echiquier, Paris, in the Empire of France, and of 4, South Street, Finsbury, London, for an invention for—"A new system of construction of ships or vessels."—*A communication from J. B. Paganini, of Genoa.* *Letters Patent sealed.*

GLASSFORD. 5th September 1855. — 2011. JOHN HAMILTON GLASSFORD, of Glasgow, in the County of Lanark, North Britain, Lithographer, for an invention for—"Improvements in printing textile fabrics and other surfaces." *Letters Patent sealed.*

PEACOCK. 5th September 1855. — 2012. GEORGE PEACOCK, of Gracechurch Street, in the City of London, Merchant and ship owner, for an invention for—"Improvements in ship building." *Letters Patent sealed.*

MARTIEN. 5th September 1855. — 2013. JOSEPH GILBERT MARTIEN, of Newark, New Jersey, in the United States of America, but now resident in London, for an invention for—"Improvements in roasting, calcining, oxydizing, and subliming metallic and mineral substances, and in the apparatus and means to effect the same." *Letters Patent sealed.*

NETTLESHIP.
5th September 1855.

2014. ICHABOD NETTLESHIP, of Derby, in the County of Derby, Overlooker, for an invention for—"An improved spindle for the spinning of silk or other fibrous material." *Letters Patent sealed.*

GODDARD.
6th September 1855.

2015. SAMUEL ASPINWALL GODDARD, of Birmingham, in the County of Warwick, Merchant and Gun manufacturer, for an invention for—"A new or improved method of preventing the injurious fouling of the barrels of fire-arms, and of cleaning the same when fouled." *Provisional protection only.*

SCHWARTZ.
6th September 1855.

2016. THEODORE SCHWARTZ, of the City and State of New York, in the United States of America, now of No. 67, Gracechurch Street, in the City of London, for an invention for—"An improvement in heating or cooling aëriform and liquid bodies." *Letters Patent sealed.*

ASTON.
6th September 1855.

2017. CHRISTOPHER PENRHYN ASTON, of Cross Street, in the County of Middlesex, Gun barrel maker, for an invention for—"Improvements in breech loading arms." *Letters Patent sealed.*

PRYSE.
CASHMORE.
6th September 1855.

2018. CHARLES PRYSE, of Birmingham, in the County of Warwick, Gun manufacturer, and PAUL CASHMORE, of West Bromwich, in the County of Stafford, Pistol manufacturer, for an invention for—"Certain improvements in repeating fire-arms." *Letters Patent sealed.*

FRASER.
6th September 1855.

2019. JAMES FRASER, of Jermyn Street, in the County of Middlesex, Gentleman, for an invention for—"An improvement in the manufacture of paper."—*A communication.* *Letters Patent sealed.*

GILBEE.
6th September 1855.

2020. WILLIAM ARMAND GILBEE, of No. 4, South Street, Finsbury, London, Gentleman, for an invention for—"An improved process and apparatus for the purification and clarification of oils."—*A communication from Monsieur Laffon, of Paris.* *Letters Patent sealed.*

LOWRY.
7th September 1855.

2021. GEORGE LOWRY, of the City of Manchester, Machinist, for an invention for—"Improvements in machinery for heckling flax and other fibrous materials." *Letters Patent sealed.*

HAND.
7th September 1855.

2022. SELBY HAND, of Glinton Iron works, Glinton, in the County of Northampton, for an invention for—"An improved combined cake crushing, oat bruising, and bean splitting mill." *Provisional protection only.*

GARAND.
7th September 1855.

2023. FLORENTIN GARAND, of Paris, in the Empire of France, and of 46, Regent Street, Middlesex, for an invention for—"Improvements in machinery for cutting veneers." *Letters Patent sealed.*

BROOMAN.
7th September 1855.

2024. RICHARD ARCHIBALD BROOMAN, of 166, Fleet Street, in the City of London, Patent agent, for an invention for—"An improvement in casting mortars, cannon, and other hollow articles."—*A communication from John Webster Cochran, of New York.* *Letters Patent sealed.*

TEMPLETON.
MILLAR.
7th September 1855.

2025. NATHANIEL TEMPLETON, of Glasgow, in the County of Lanark, North Britain, Manufacturer, and DAVID MILLAR, of the same place, Manager, for an invention for—"Improvements in the manufacture of figured fabrics." *Provisional protection only.*

STEWART.
7th September 1855.

2026. JOHN STEWART, of Preston, in the County of Lancaster, Boiler maker, for an invention for—"Improvements in the construction of steam-boilers for the more effectual consumption of smoke." *Letters Patent sealed.*

M'INTYRE.
7th September 1855.

2027. JOHN M'INTYRE, of Jarrow-upon-Tyne, in the County of Durham, Iron ship builder, for an invention for—"Improvements in apparatus for calking decks, ceilings, and floors." *Letters Patent sealed.*

DAMERON.
7th September 1855.

2028. LOUIS DAMERON, of Paris, and No. 4, South Street, Finsbury, London, Coach manufacturer, for an invention for—"Improvements in the construction of carriages." *Letters Patent sealed.*

REYNAUD.
7th September 1855.

2029. LOUIS PROSPER REYNAUD, of Paris, and 4, South Street, Finsbury, London, Mechanician, for an invention for—"A new system of endless stair 'crane.'" *Provisional protection only.*

HART.
8th September 1855.

2030. HENRY HART, of No. 5, Waterloo Crescent, Dover, in the County of Kent, Gentleman, for an invention for—"Certain improvements in the manufacture and composition of lubricating and burning oils."—*A communication. Letters Patent sealed.*

RASCOL.
8th September 1855.

2031. EUGENE HIPPOLYTE RASCOL, of Catherine Street, Strand, in the County of Middlesex, for an invention for—"An improved fastening for articles of wearing-apparel and for other purposes, as a substitute for buttons."—*A communication. Letters Patent sealed.*

FEATHER.
8th September 1855.

2032. ROBERT BARNARD FEATHER, of Liverpool, in the County of Lancaster, Gentleman, for an invention for—"Improvements in the make and construction of shells and balls to be used with cannon or other artillery or fire-arms." *Letters Patent sealed.*

TUCK.
8th September 1855.

2033. JOSEPH HENRY TUCK, of Pall Mall, in the County of Middlesex, Civil Engineer, for an invention for—"Improvements in dredging and excavating machinery."—*A communication. Letters Patent sealed.*

BOUCHERIE.
8th September 1855.

2034. HENRI BOUCHERIE, Chemist, of Bordeaux, a Town in the French Empire, for an invention for—"Certain improvements in machinery for impregnating woods with chemical materials for their preservation and colouration." *Stopped at first.*

HEMSLEY.
HEMSLEY.
8th September 1855.

2035. THOMAS HEMSLEY, and WILLIAM HEMSLEY, of Melbourne, in the County of Derby, Lace manufacturers, for an invention for—"Improvements in the manufacture of fabrics in warp and twist lace machines." *Letters Patent sealed.*

DURANT.
8th September 1855.

2036. ANGUISH HONOUR AUGUSTUS DURANT, Esquire, of Tong Castle, Salop, for an invention for—"Improvements in apparatus for raising and lowering weights, and for saving persons and property from fire." *Letters Patent sealed.*

BIRD.
8th September 1855.

2037. JAMES BIRD, of Seymour Street West, in the County of Middlesex, Surgeon, for an invention for—"An improvement in the manufacture of biscuits." *Letters Patent sealed.*

DURANT.
8th September 1855.

2038. ANGUISH HONOUR AUGUSTUS DURANT, Esquire, of Tong Castle, Salop, for an invention for—"Improvements in apparatus for ascertaining the number of and distance travelled by passengers in public carriages." *Letters Patent sealed.*

BALESTRINI.
8th September 1855.

2039. PIER ALBERTO BALESTRINI, of Brescia, Lombardy, Gentleman, for an invention for—"Improvements in insulating wires for electric telegraphs." *Provisional protection only.*

DURANT.
8th September 1855.

2040. ANGUISH HONOUR AUGUSTUS DURANT, Esquire, of Tong Castle, Salop, for an invention for—"Improvements in apparatus for sweeping and cleaning chimneys." *Letters Patent sealed.*

ROBERTSON.
8th September 1855.

2041. ANDREW ROBERTSON, of Nether Holehouse, Neilstone, in the County of Renfrew, North Britain, Bleacher, for an invention for—"Improvements in the treatment, cleansing, and finishing of textile fabrics." *Stopped at first.*

WEBSTER.
8th September 1855.

2042. HENRY WEBSTER, of Dalby Terrace, City Road, Watch manufacturer, for an invention for—"An improvement in the construction of chronometers, clocks, watches, and other timepieces." *Letters Patent sealed.*

GRENET.
8th September 1855.

2043. EUGÈNE GRENET, Jun', Civil Engineer, of Paris, in the French Empire, for an invention for—"An improved electro-magnetic apparatus for motive-power, part of which may be employed separately for the generation of electric currents." *Letters Patent sealed.*

PANET.
8th September 1855.

2044. JEAN PANET, Gentleman, of Echenoz-la-meline, near Vesoul, Town in the French Empire, for an invention for—"An improved hydraulic system for propelling on railways, or obtaining motive-power and distributing water." *Letters Patent sealed.*

ALLAN.
8th September 1855.

2045. THOMAS ALLAN, of Adelphi Terrace, in the City of Westminster, Civil Engineer, for an invention for—"Certain means of correcting or preventing the deviation of the compass needle from local attraction." *Stopped at first.*

HEWETT.
10th September 1855.

2046. CHARLES HEWETT, of No. 8, King's Row, Pentonville, in the County of Middlesex, Chocolate manufacturer, for an invention for—"Certain improvements in baking-ovens." *Letters Patent sealed.*

SHARPE.
10th September 1855.

2047. EDMUND SHARPE, of Swadlincote, in the County of Derby, Earthenware manufacturer, for an invention for—"Improvements in pans for water-closets." *Letters Patent sealed.*

RHODES.
JOHNSON.
10th September 1855.

2048. JOHN RHODES, and JOHN JOHNSON, both of the City of Manchester, Engineers, for an invention for—"Certain improvements in steam-engines, part of which is applicable to pumps." *Provisional protection only.*

BELLFORD.
10th September 1855.

2049. AUGUSTE EDOUARD LORADOUX BELLFORD, of 32, Essex Street, Strand, London, Patent agent, for an invention for—"Improvements in paddle-wheels."—*A communication.* *Provisional protection only.*

BELLFORD.
10th September 1855.

2050. AUGUSTE EDOUARD LORADOUX BELLFORD, of 32, Essex Street, Strand, London, Patent agent, for an invention for—"An improved governor for steam-engines."—*A communication.* *Provisional protection only.*

CRAVEN.
10th September 1855.

2051. THOMAS CRAVEN, of Nelson Street, Goodman's Fields, in the County of Middlesex, for an invention for—"Improvements in furnace bars." *Provisional protection only.*

GIMSON.
11th September 1855.

2052. JOSIAH GIMSON, of Welford Road, Leicester, in the County of Leicester, for an invention for—"An improved feed apparatus for steam-boilers."—*Stopped at fiat.*

BULL.
11th September 1855.

2053. HENRY BULL, of Knowle Green House, Staines, in the County of Middlesex, Gentleman, for an invention for—"Railway permanent way materials." *Letters Patent sealed.*

HINCHLIFF.
11th September 1855.

2054. GEORGE STANLEY HINCHLIFF, of the firm of Hinchliff and Company, of Piccadilly, in the City of Westminster, Paper-hanging manufacturers, for an invention for—"Improvements in the manufacture of paper-hangings."—*A communication.* *Provisional protection only.*

HEATON.
11th September 1855.

2055. THOMAS HEATON, of Blackburn, in the County of Lancaster, Engineer, for an invention for—"Improvements in pumps." *Provisional protection only.*

LEBAIGUE.
11th September 1855.

2056. FRANÇOIS HONORÉ LEBAIGUE, of Little Titchfield Street, in the County of Middlesex, Chocolate manufacturer, for an invention for—"An improvement in the manufacture of chocolate." *Letters Patent sealed.*

CURTIS.
WAIN.
11th September 1855.

2057. MATTHEW CURTIS, of the City of Manchester, in the County of Lancaster, Machinist, and JOHN WAIN, of the same place, Mechanic, for an invention for—"Improvements in machinery for preparing and spinning cotton and other fibrous substances." *Letters Patent sealed.*

KENNEDY.
11th September 1855.

2058. JOSEPH CAMP GRIFFITH KENNEDY, of St. James Street, Piccadilly, in the County of Middlesex, Gentleman, for an invention for—"Improvements in the mode of and apparatus for transmitting signals by the use of the electric current, part of which improvements is applicable to the regulating of machinery generally."—*A communication.* *Letters Patent sealed.*

BOUCHARD.
11th September 1855.

2059. ETIENNE CHARLES ZACHARIE BOUCHARD, Civil Engineer, of Paris, in the French Empire, for an invention for—"Certain improvements in producing gas for lighting and heating." *Letters Patent sealed.*

HIGGIN.
12th September 1855.

2060. JAMES HIGGIN, of the City of Manchester, in the County of Lancaster, Manufacturing Chemist, for an invention for—"Improvements in treating madder or preparations of madder, so as to obtain a colouring substance therefrom." *Letters Patent sealed.*

MACINTOSH.
12th September 1855.

2061. JOHN MACINTOSH, of Great Ormond Street, in the County of Middlesex, for an invention for—"Improvements in springs." *Letters Patent sealed.*

PARTRIDGE.
KIRKHAM.
12th September 1855.

2062. JOSEPH PARTRIDGE, of West Bromwich, in the County of Stafford, Plumber, and JOHN KIRKHAM, of the same place, Engineer, for an invention for—"Improvements in malt crushers."—*Complete specification.* *Letters Patent sealed.*

SPILSBURY.
EMERSON.
12th September 1855.

2063. FRANCIS GYBBON SPILSBURY, of Chaudfontaine, in the Kingdom of Belgium, Gentleman, and FREDERICK WILLIAM EMERSON, of Stable Hobba, near Penzance, in the County of Cornwall, Manufacturing Chemist, for an invention for—"Improvements in the manufacture of paints and pigments." *Letters Patent sealed.*

PROGER. 12th September 1855.

2064. JOHN GUY PROGER, of Trinity Street, Cardiff, Signal lamp manufacturer, for an invention for—"Improvements in ships' signal lanterns."—*Letters Patent sealed.*

BARBER. BUTTERFIELD. AUSTIN. 13th September 1855.

2065. BENJAMIN BARBER, of Tring, Wood Turner, JOHN BUTTERFIELD, of Great Berkhampstead, Saddler, and THOMAS AUSTIN, of the same parish, all in the County of Hertford, Plumber, for an invention for—"Improvements in mangles." *Letters Patent sealed.*

MACINTOSH. 13th September 1855.

2066. JOHN MACINTOSH, of Great Ormond Street, in the County of Middlesex, for an invention for—"Improvements in metallic and other pens."—*Letters Patent sealed.*

DE LUCENAY. 13th September 1855.

2067. PIERRE BERNADET DE LUCENAY, of Paris, France, Retired Officer, for an invention for—"Certain improvements in the batteries of guns and pistols." *Letters Patent sealed.*

COUSENS. 13th September 1855.

2068. ROBERT BOOTY COUSENS, of 50, Halliford Street, Islington, in the County of Middlesex, Engineer, for an invention for—"Improvements in machinery or apparatus for making casks." *Stopped at fee.*

BLISSETT. 13th September 1855.

2069. JOHN BLISSETT, of No. 322, High Holborn, in the County of Middlesex, Gun maker, for an invention for—"Improvements in the construction of revolving chamber fire-arms." *Provisional protection only.*

TUCK. 13th September 1855.

2070. JOSEPH HENRY TUCK, of Pall Mall, in the County of Middlesex, Civil Engineer, for an invention for—"Improvements in apparatus for carrying on submarine operations."—*A communication.* *Letters Patent sealed.*

LONGBOTTOM. 13th September 1855.

2071. ABRAM LONGBOTTOM, of 41, Moorgate Street, in the City of London, and Soho Foundry, Leeds, Engineer, for an invention for—"Improvements in the manufacture of gas when oils or fatty matters are used." *Letters Patent sealed.*

HARTMANN. 14th September 1855.

2072. JULES ALBERT HARTMANN, Chemist, of Mulhouse, a Town in the French Empire, for an invention for—"Certain improvements in the preparation and combination of colours for printing stuffs and textile fabrics." *Letters Patent sealed.*

GARBAI. 14th September 1855.

2073. JEAN PIERRE GARBAI, of Paris, in the French Empire, Gentleman, for an invention for—"An improved powder or composition for cleaning and preserving the teeth." *Letters Patent sealed.*

CHURCH. 14th September 1855.

2074. WILLIAM CHURCH, of Birmingham, in the County of Warwick, Engineer, for an invention for—"Improvements in mounting and adjusting ordnance and other fire-arms." *Letters Patent sealed.*

GOMME. BEAUGRAND. 14th September 1855.

2075. THEODORE GOMME, Junior, and CHARLES EUGENE AUGUSTE BEAUGRAND, of Paris, in the Empire of France, and of 32, Essex Street, Strand, London, for an invention for—"Certain improvements in machinery for manufacturing copper and other metal wares." *Letters Patent sealed.*

SCULLY. HEYWOOD. 14th September 1855.

2076. VINCENT SCULLY, Esquire, and BENNETT JOHNS HEYWOOD, Gentleman, both of the City of Dublin, for an invention for—"Improvements in bottles, inkstands, and other vessels, and in caps or stoppers for closing the same."—*Stopped at fee.*

DEWDNEY. 14th September 1855.

2077. GEORGE DEWDNEY, of Fenchurch Street, in the City of London, Jeweller, for an invention for—"An improved manufacture of protector applicable to the chest, throat, and other parts of the body requiring protection from the cold." *Letters Patent sealed.*

STOCKEN. 14th September 1855.

2078. FREDERICK STOCKEN, of 5, Halkin Street, Belgrave Square, in the County of Middlesex, for an invention for—"Improvements in carriage springs." *Stopped at fee.*

THOMAS. 14th September 1855.

2079. WILLIAM FREDERICK THOMAS, of St. Martin's le Grand, in the City of London, for an invention for—"Improvements in sewing-machines." *Letters Patent sealed.*

OXLEY. 15th September 1855.

2080. WILLIAM OXLEY, of the City of Manchester, Engineer, for an invention for—"Improvements in machinery or apparatus for washing fabrics and other substances." *Provisional protection only.*

WOHLGEMUTH. 15th September 1855.

2081. PAUL FREDERICK WOHLGEMUTH, of No. 57, New Bond Street, Hanover Square, in the County of Middlesex, for an invention for—"The construction of bridges." *Letters Patent sealed.*

MARTIEN. 15th September 1855.

2082. JOSEPH GILBERT MARTIEN, of Newark, New Jersey, United States of America, but now residing in London, for an invention for—"Improvements in the manufacture of iron and steel." *Letters Patent sealed.*

CHANDLER. 15th September 1855.

2083. HENRY CHANDLER, of Birmingham, in the County of Warwick, Manufacturer, for an invention for—"Improvements in roasting-jacks."—*Letters Patent sealed.*

SCULLY. HEYWOOD. 15th September 1855.

2084. VINCENT SCULLY, Esquire, and BENNETT JOHNS HEYWOOD, Gentleman, both of the City of Dublin, for an invention for—"An improvement in the manufacture of certain articles which are subject to the corroding action of the air and moisture." *Stopped at fiat.*

HILL. 15th September 1855.

2085. DAVID HILL, of Ocker Hill, Tipton, in the County of Stafford, Forge manager, for an invention for—"Preparing a material capable of resisting fire, and especially suitable for the interior of puddling and other furnaces." *Letters Patent sealed.*

SANGSTER. 15th September 1855.

2086. WILLIAM SANGSTER, of Cheapside, in the City of London, for an invention for—"An improvement in the manufacture of stays and corsets." *Letters Patent sealed.*

HAMILTON. 15th September 1855.

2087. GEORGE HAMILTON, of Great Tower Street, in the City of London, Gentleman, for an invention for—"Improvements in apparatus for weighing." *Provisional protection only.*

ZENNER. 15th September 1855.

2088. DAVID ZENNER, of the Town and County of Newcastle-upon-Tyne, Practical Chemist, for an invention for—"Improvements in washing and separating pulverized ores and matters."—*A communication.* *Letters Patent sealed.*

GORDON. 15th September 1855.

2089. LEWIS DUNBAR BRODIE GORDON, of Abingdon Street, Westminster, Civil Engineer, for an invention for—"An improvement in electric telegraphs when insulated wires are laid under water or in the earth."—*A communication from Werner Siemens, of Berlin.* *Letters Patent sealed.*

FORD. 15th September 1855.

2090. ALFRED FORD, of the parish of St. James, in the County of Middlesex, Gentleman, for an invention for—"Improvements in preparing solutions of caoutchouc, gutta-percha, and like gums, for waterproofing and other useful purposes." *Letters Patent sealed.*

GRAY. 17th September 1855.

2091. JOHN GRAY, of Nos. 4 and 5, Princes Street, in the County of the City of Dublin, Ireland, Medical Doctor, for an invention for—"An improved water-closet arrangement."—*Complete specification.* *Letters Patent sealed.*

LEWTAS. 17th September 1855.

2092. JOSEPH LEWTAS, of the City of Manchester, Manufacturer of venetian and other blinds, for an invention for—"Improvements in apparatus for holding and letting go cords, chains, or bands." *Letters Patent sealed.*

SCOTT. 17th September 1855.

2093. URIAH SCOTT, of Duke Street, Adelphi, in the County of Middlesex, Engineer, for an invention for—"Certain improvements in the construction of vehicles and the various parts of the same." *Stopped at fiat.*

FORSYTH. 17th September 1855.

2094. THOMAS FORSYTH, of Manchester, in the County of Lancaster, Engineer, for an invention for—"Improvements in the treatment of scrap iron in the process of manufacture." *Provisional protection only.*

GIBBS. 17th September 1855.

2095. EDWARD GIBBS, of Wolverhampton, in the County of Stafford, Manufacturer, for an invention for—"A new or improved manufacture of picture-frames, vases, busts, and such articles as are or may be produced by the process of moulding." *Letters Patent sealed.*

SMITH. 17th September 1855.

2096. WILLIAM HANDASYD SMITH, of Birmingham, in the County of Warwick, Builder, for an invention for—"An improvement or improvements in bolts, latches, and locks." *Provisional protection only.*

TURNER. 17th September 1855.

2097. NOAH TURNER, of Chorley, in the County of Lancaster, Gold thread and plate manufacturer, for an invention for—"Certain improvements in the manufacture known as 'gold wire' and 'gold plate,' for the production of 'gold thread' or 'gold lace.'" *Provisional protection only.*

CAIRD. 17th September 1855.

2098. JAMES TENNANT CAIRD, of Greenock, in the County of Renfrew, North Britain, Civil Engineer, for an invention for—"Improvements in steam-engines." *Letters Patent sealed; no specification filed.*

COPLAND. 17th September 1855.

2099. GEORGE COPLAND, of Liverpool, in the County of Lancaster, Practical Chemist, for an invention for—"Improved fluid compound for the destruction of bugs and other insects." *Provisional protection only.*

BELLFORD. 17th September 1855.

2100. AUGUSTE EDOUARD LORADOUX BELLFORD, Patent agent, of 32, Essex Street, Strand, London, for an invention for—"Certain improvements in fountain lamps."—*A communication. Complete specification.* *Letters Patent sealed.*

DESTIBEAUX. 17th September 1855.

2101. JEAN HECTOR DESTIBEAUX, Merchant, of Paris, Town of the French Empire, for an invention for—"An improved water-proof fabric." *Provisional protection only.*

BROOMAN. 17th September 1855.

2102. RICHARD ARCHIBALD BROOMAN, of 166, Fleet Street, in the City of London, Patent agent, for an invention for—"Improvements in obtaining raw silk, which are also applicable to fibres worked in a wet state."—*A communication.* *Letters Patent sealed.*

BRIGHT. BRIGHT. 17th September 1855.

2103. CHARLES TILSTON BRIGHT, of Liverpool, in the County of Lancaster, Engineer, and EDWARD BRAILSFORD BRIGHT, of the same place, Secretary of the English and Irish Magnetic Telegraph Company, for an invention for—"Improvements in electric telegraphs and in apparatus connected therewith." *Letters Patent sealed.*

DELLAGANA. 18th September 1855.

2104. JAMES DELLAGANA, of 61, Red Lion Street, Clerkenwell, in the County of Middlesex, Stereotype founder, for an invention for—"Stereotyping type high, that is to say, as high as common printing type or seven eighths of an inch high." *Stopped on second reference.*

HALCOMBE. 18th September 1855.

2105. JOHN JOSEPH HALCOMBE, of Magdalene College, Cambridge, for an invention for—"Improvements in the means of obtaining skeleton maps for educational purposes." *Provisional protection only.*

BROOMAN. 18th September 1855.

2106. RICHARD ARCHIBALD BROOMAN, of 166, Fleet Street, in the City of London, Patent agent, for an invention for—"Improvements in knitting machinery."—*A communication.* *Letters Patent sealed.*

BARRY. 18th September 1855.

2107. PIERRE GÉDÉON BARRY, of Gray, Town in the French Empire, Chemist, for an invention for—"Improvements in treating bituminous shale, boghead mineral, and other like schistus bodies, in order to obtain various commercial products therefrom." *Provisional protection only.*

SMITH. 18th September 1855.

2108. FERIDOON HANKEY SMITH, of Ludgate Hill, in the City of London, Engineer, for an invention for—"An improved break for carriages with poles." *Letters Patent sealed.*

NEWTON. 18th September 1855.

2109. ALFRED VINCENT NEWTON, of the Office for Patents, 66, Chancery Lane, in the County of Middlesex, Mechanical Draughtsman, for an invention for—"An improved construction of paddle-wheel, and an improved mode of mounting such wheels."—*A communication.* *Letters Patent sealed.*

WARREN. 18th September 1855.

2110. WILLIAM WARREN, of Regent Place, Birmingham, in the County of Warwick, for an invention for—"Improvements in the construction of vices." *Letters Patent sealed.*

WILLIS. 18th September 1855.

2111. JAMES WILLIS, of Cheapside, in the City of London, Umbrella maker, for an invention for—"Improvements in the construction of umbrella and parasol furniture." *Letters Patent sealed.*

CORNIDES. 19th September 1855.

2112. LOUIS CORNIDES, of No. 4, Trafalgar Square (office for Patents), Charing Cross, for an invention for—"Certain improvements in obtaining impressions of prints or drawings, and in transferring, printing, and colouring or ornamenting the same, on glass or other surfaces." *Letters Patent sealed.*

BIDDELL.
19th September 1855.

2113. GEORGE ARTHUR BIDDELL, of Ipswich, Engineer, for an invention for—"Improvements in railway crossings." *Letters Patent sealed.*

COULSON.
19th September 1855.

2114. SAMUEL COULSON, of Sheffield, Metallurgist, for an invention for—"An improvement in the manufacture of ornamented metal tea-pots, coffee-pots, milk jugs, and sugar basins." *Letters Patent sealed.*

LOMAX.
19th September 1855.

2115. WILLIAM ROTHWELL LOMAX, of Hammersmith, in the County of Middlesex, Civil Engineer, for an invention for—"Improvements in steam-engines." *Letters Patent sealed.*

BROOMAN.
19th September 1855.

2116. RICHARD ARCHIBALD BROOMAN, of 166, Fleet Street, in the City of London, Patent agent, for an invention for—"Improvements in preserving animal and vegetable substances."—*A communication.* *Letters Patent sealed.*

LINSEY.
19th September 1855.

2117. JOHN HENRY LINSEY, of 12, Pilgrim Street, Ludgate Hill, in the City of London, for an invention for—"Certain improvements in account books and other large books." *Letters Patent sealed.*

DEACON.
20th September 1855.

2118. HENRY DEACON, of the Woodland Chemical works, Widnes Dock, near Warrington, in the County of Lancaster, Manufacturing Chemist, for an invention for—"Improvements in the manufacture of solutions of carbonate of ammonia, and in the manufacture of caustic ammonia." *Provisional protection only.*

PAGE.
ROBERTSON.
20th September 1855.

2119. JOHN PAGE, of the Town and County of Perth, North Britain, Civil Engineer, and WILLIAM ROBERTSON, of Dundee, in the County of Forfar, North Britain, Engineer, for an invention for—"Improvements in moulding or shaping metals." *Letters Patent sealed.*

PALMER.
20th September 1855.

2120. JOHN PALMER, of Stockton-on-Tees, in the County of Durham, Agricultural implement dealer and manufacturer, for an invention for—"Improvements in the construction of reaping-machines." *Letters Patent sealed.*

LEES.
CLEGG.
21st September 1855.

2121. ASA LEES, of the Soho Iron works, Oldham, in the County of Lancaster, Machine maker, and JOHN CLEGG, of the same place, Foreman, for an invention for—"Certain improvements in looms for weaving." *Letters Patent sealed.*

DALE.
21st September 1855.

2122. JOHN DALE, of Manchester, in the County of Lancaster, Manufacturing Chemist, for an invention for—"Certain improvements in appropriating waste products arising in the manufacture of certain chemical compounds." *Letters Patent sealed.*

PARKINSON.
21st September 1855.

2123. GEORGE SEABORN PARKINSON, of No. 14, Devonshire Terrace, Kensington, Middlesex, for an invention for—"Improvements in railway breaks." *Letters Patent sealed.*

BRASSEUR.
21st September 1855.

2124. URSURER JOSEPH BRASSEUR, of 40, Rue de Hambourg, Paris, for an invention for—"Improvements in machinery for winding weft."——*A communication from Theodore Clovis Lefevre, and Joseph Victor Muloteaux, of Paris. Letters Patent sealed.*

POLLITT.
EASTWOOD.
22nd September 1855.

2125. WILLIAM POLLITT, of Clayton-le-dale, in the County of Lancaster, Farmer, and JAMES EASTWOOD, of Blackburn, in the said County, File manufacturer, for an invention for—"Improvements in apparatus for churning milk and mixing liquid compounds." *Letters Patent sealed.*

EATON.
22nd September 1855.

2126. JAMES EATON, of Charing Cross, Strand, in the County of Middlesex, for an invention for—"Improvements in shuttles, and in making cop-tubes used in shuttles." *Provisional protection only.*

CHALMERS.
24th September 1855.

2127. DAVID CHALMERS, of the City of Manchester, in the County of Lancaster, Manufacturer, for an invention for—"Improvements in machinery or apparatus for cutting the pile of woven fabrics." *Letters Patent sealed.*

MOTTET.
24th September 1855.

2128. HECTOR MOTTET, Jr, of Verviers, in the Kingdom of Belgium, but now residing in London, for an invention for—"Scouring woollen goods during the action of fulling or otherwise." *Provisional protection only.*

BEATTIE. 24th September 1855. **2129.** JOSEPH BEATTIE, of No. 11, Lawn Place, South Lambeth, in the County of Surrey, Engineer, for an invention for—"Improvements in furnaces and boilers for the generation of steam, and in apparatus for the application and treatment thereof." *Letters Patent sealed.*

MARCHINTON. 24th September 1855. **2130.** JOHN MORETON MARCHINTON, of the firm of Marchinton Brothers, of Bruce works, Sheffield, in the County of York, Machinists &c., for an invention for —"Improvements in the construction of vices." *Letters Patent sealed.*

HARCOURT. 24th September 1855. **2131.** HENRY JAMES HARCOURT, of Bristol Street, Birmingham, in the County of Warwick, Brass founder, for an invention for—"Certain improvements in bell cranks and other parts of bell furniture." *Letters Patent sealed.*

MANBY. PIPER. 24th September 1855. **2132.** CHARLES MANBY, of 25, Great George Street, Westminster, and WILLIAM PIPER, of Palace Road, Stangate, for an invention for "Improvements in machinery for cutting stone."—*A communication from Eugene Cherallier.* *Letters Patent sealed.*

HUDSON. 24th September 1855. **2133.** GEORGE ROBERT HUDSON, of the firm of Hill, Hudson Brothers, and Company, of No. 120, London Wall, for an invention for—"An improved coffee-pot." —*A communication.* *Provisional protection only.*

MUSTO. BEAR. 24th September 1855. **2134.** JOHN MUSTO, of the East London Iron works, Cambridge Road, Mile End, Engineer, and FREDERICK BEAR, of 43, Northampton Street, Mile End, Tobacco manufacturer, for an invention for—"Improvements in machinery for the manufacture of tobacco." *Letters Patent sealed.*

NEWTON. 24th September 1855. **2135.** ALFRED VINCENT NEWTON, of the Office for Patents, 66, Chancery Lane, in the County of Middlesex, Mechanical Draughtsman, for an invention for—"An improved mode of casting solid and hollow articles in metal."—*A communication.* *Letters Patent sealed.*

SIMMONDS. 24th September 1855. **2136.** GEORGE SIMMONDS, of Bennett Street, Stamford Street, Blackfriars Road, in the County of Surrey, Plate Leveller, for an invention for—"Improvements in the construction of bedsteads." *Provisional protection only.*

GARDNER. 25th September 1855. **2137.** JOHN LAWRENCE GARDNER, of Providence Street, Walworth, County of Surrey, Manufacturing Stationer, for an invention for—"Improvements in the manufacture, form, and mode of attaching buttons." *Provisional protection only.*

WRIGHT. WRIGHT. 25th September 1855. **2138.** WILLIAM WRIGHT, and JOHN WRIGHT, both of Stamford, in the County of Lincoln, Machinists, for an invention for—"Improvements in machinery for crushing grain." *Letters Patent sealed.*

CLIVE. 25th September 1855. **2139.** JOSEPH CHARLES CLIVE, of Birmingham, in the County of Warwick, Manufacturer, for an invention for—"Improvements in photography." *Provisional protection only.*

WHITWORTH. 25th September 1855. **2140.** CHARLES FREDERICK WHITWORTH, of Halifax, in the County of York, Gentleman, for an invention for—"Improvements in signals used on railways, and in parts of apparatus in connection therewith." *Letters Patent sealed.*

LAPORTE. 25th September 1855. **2141.** ETIENNE LAPORTE, Chemist, of Paris, in the French Empire, for an invention for—"Certain improvements in the manufacture of candles." *Letters Patent sealed.*

ENSOR. 25th September 1855. **2142.** FREDERICK RAINFORD ENSOR, of the Park, Nottingham, for an invention for—"Improvements in bobbin net or twist lace machines." *Letters Patent sealed.*

ROBERTS. 25th September 1855. **2143.** JOHN ROBERTS, of Upnor, in the County of Kent, Potter, for an invention for—"Improvements in the manufacture of cements." *Provisional protection only.*

HUGUENIN. 26th September 1855. **2144.** GUSTAVUS HUGUENIN, of Greek Street, in the County of Middlesex, Watch manufacturer, for an invention for—"Certain improvements in watches and other time-keepers." *Letters Patent sealed.*

CRANKSHAW. 26th September 1855. **2145.** RICHARD CRANKSHAW, of Blackburn, in the County of Lancaster, Manager, for an invention for—"Certain improvements in machinery or apparatus for sizing or otherwise preparing warps for weaving." *Provisional protection only.*

NORBURY. 26th September 1855.

2146. JOHN NORBURY, of Salford, in the County of Lancaster, Engineer, for an invention for—"Certain improvements in machinery or apparatus applicable to hydraulic presses." *Letters Patent sealed.*

BOUCHET. 26th September 1855.

2147. FELIX BOUCHET, Mechanician, of Paris (France), for an invention for—"An improved mechanical arrangement for elevating or lowering, and moving forward or backward heavy or submerged bodies." *Letters Patent sealed.*

NASMYTH. 26th September 1855.

2148. JAMES NASMYTH, Civil Engineer, residing at St. Germain in Laye, in France, for an invention for—"Improvements in the modes of obtaining motive-power by a rotary or circular movement, and of applying it." *Letters Patent sealed.*

HILLES. 26th September 1855.

2149. MALCOLM WILLIAM HILLES, of Percy Street, Bedford Square, in the County of Middlesex, Gentleman, for an invention for—"An improved construction of rack for window-blinds." *Provisional protection only.*

DEAKIN. 26th September 1855.

2150. THOMAS DEAKIN, of Hazelwell Mills, near King's Norton, in the County of Worcester, Engineer, for an invention for—"New or improved machinery for manufacturing bayonets, matchets, and swords."—*Complete specification.* *Letters Patent sealed.*

HUGHES. 27th September 1855.

2151. HENRY HUGHES, of Loughborough, in the County of Leicester, Gentleman, for an invention for—"Improvements in the means of compensating for the wear of machinery subject to rectilinear motion." *Letters Patent sealed.*

FONTAINEMOREAU. 27th September 1855.

2152. PETER ARMAND LE COMTE DE FONTAINEMOREAU, of the English and Foreign Patent Office, 4, South Street, Finsbury, London, and 39, Rue de l'Echiquier, Paris, Patent agent, for an invention for—"Improvements in forging iron."—*A communication.* *Letters Patent sealed.*

GUILBERT. GUILLEMÈRE. 27th September 1855.

2153. ANAXAGOR EPAMINONDAS GUILBERT, and CHARLES LOUIS GUILLEMÈRE, of Paris (Empire of France), and of 32, Essex Street (Strand), London, for an invention for—"A new system of bridle for leading and overruling fiery horses." *Letters Patent sealed.*

ATKINSON. RIDGE. 27th September 1855.

2154. MATTHEW ATKINSON, of Wandsworth, in the County of Surrey, Engineer, and BENJAMIN RIDGE, of Putney, in said County of Surrey, Doctor of Medicine, for an invention for—"Improvements in the construction and setting of steam-boilers, for economizing fuel, and for rendering the same applicable not only to the generation of steam but also to ventilation, the distillation of water for ships' use, and the distribution of heat for general purposes." *Letters Patent sealed.*

POIGNAND. 27th September 1855.

2155. FRANÇOIS XAVIER POIGNAND, Merchant, at Paris, Town in the French Empire, for an invention for—"Improvements in the manufacture of wedges and keys."—*A communication.* *Letters Patent sealed.*

NEWMAN. 27th September 1855.

2156. JAMES NEWMAN, of Birmingham, in the County of Warwick, Manufacturer, for an invention for—"Improvements in the manufacture of railway wheels." *Provisional protection only.*

THÉRY. 27th September 1855.

2157. CHARLES VICTOR THÉRY, of London, Chocolate manufacturer, for an invention for—"A new preparation of coffee." *Letters Patent sealed.*

NOTTIDGE. 27th September 1855.

2158. JOSIAS NOTTIDGE, of the Atlas Chemical works, Locksfields, Walworth, in the County of Surrey, for an invention for—"Improvements in the manufacture of manure." *Letters Patent sealed.*

DYKE. 28th September 1855.

2159. THOMAS DYKE, of Long Newton, near Darlington, in the County Palatine of Durham, Gentleman, for an invention for—"Improvements in grass-cutting machines." *Provisional protection only.*

THWAITES. 28th September 1855.

2160. JOHN HALL BROCK THWAITES, of Bristol, in the County of Somerset, Dentist, for an invention for—"Improvements in the preservation of teeth, and in the manufacture and application of artificial teeth." *Stopped at fiat.*

GRAY. 28th September 1855.

2161. WILLIAM DAVID GRAY, of No. 1, Clifton Road, Old Kent Road, Surrey, Master Mariner, for an invention for—"An apparatus or instrument for showing the course or direction and distance run by a ship at sea." *Letters Patent sealed.*

PITMAN. 28th September 1855.

2162. JOHN TALBOT PITMAN, of the American and European Patent Offices, 67, Gracechurch Street, London, for an invention for—"An improved screw wrench."—*A communication.* *Letters Patent sealed.*

JOHNSON. 28th September 1855.

2163. RICHARD LOCKE JOHNSON, of No. 12, Cabra Terrace, Dublin, Brass founder and Gas fitter, and of 48, Mary Street, in said City, for an invention for—"Improvements in the manufacture of gas for illumination, from peat or other substances, and in the apparatus employed in such manufacture." *Letters Patent sealed.*

CLEGG. 28th September 1855.

2164. THOMAS CLEGG, of the State of Massachusetts, of the United States of America, for an invention for—"Certain new and useful improvements in the construction and manufacture of loom harness."—*Complete specification.* *Letters Patent sealed.*

BARROWS. 28th September 1855.

2165. THOMAS BARROWS, of the State of Massachusetts, of the United States of America, for an invention for—"A new and useful improvement in the treatment of wool preparatory to its being carded, spun, or woven."—*Complete specification.* *Letters Patent sealed.*

ROBEY. SCOTT. 28th September 1855.

2166. ROBERT ROBEY, and GEORGE LAMB SCOTT, both of the City of Lincoln, Engineers, for an invention for—"Improvements in locomotive and other boilers." *Letters Patent sealed.*

THOMSON. 28th September 1855.

2167. EDWARD DEAS THOMSON, of Duke Street, St. James', for an invention for—"Improvements in generating heat in steam-boiler furnaces." *Provisional protection only.*

GOOD. 28th September 1855.

2168. JAMES GOOD, of the City of Lincoln, Machine maker, for an invention for—"Improvements in straw shakers of thrashing-machines." *Letters Patent sealed.*

ADAMSON. 29th September 1855.

2169. GEORGE ADAMSON, of Leith Street, Edinburgh, in the County of Mid-Lothian, North Britain, for an invention for—"A travelling staging and crane or jenny, adapted for building piers and other harbour works." *Stopped at warrant.*

BARLOW. 29th September 1855.

2170. HENRY BERNOULLI BARLOW, of the City of Manchester, Patent agent, for an invention for—"Improvements in mules and other machines of the like nature for spinning and doubling cotton and other fibrous materials."—*A communication.* *Letters Patent sealed.*

MITCHELL. 29th September 1855.

2171. JOSEPH MITCHELL, of Sheffield, in the County of York, Engineer, for an invention for—"Improvements in buffers and draw springs used for railway and other purposes." *Letters Patent sealed; no specification filed.*

HERAPATH. 29th September 1855.

2172. WILLIAM BIRD HERAPATH, of Bristol, in the County of Somerset, Doctor of Medicine and Surgeon, for an invention for—"Improvements in the manufacture of surgical instruments." *Stopped at first.*

CHADWICK. FROST. HANSON. CHADWICK. 29th September 1855.

2173. DAVID CHADWICK, of Salford, in the County of Lancaster, Gentleman, and HERBERT FROST, Machinist, GEORGE HANSON, Plumber, and JOHN CHADWICK, Chemist, all of Manchester, in the County aforesaid, for an invention for—"Improvements in apparatus for measuring water and other fluids and gas, applicable also as a motive-power engine." *Letters Patent sealed.*

MARTIN. 29th September 1855.

2174. WILLIAM NEUFVILLE MARTIN, of Newman Street, Oxford Street, London, in the County of Middlesex, Captain in the Army, for an invention for—"Improvements in the construction of folding and portable crates, boxes, baskets, packing cases, and huts."—*Complete specification.* *Letters Patent sealed.*

BEATTIE. 29th September 1855.

2175. JOSEPH BEATTIE, of No. 11, Lawn Place, South Lambeth, in the County of Surrey, Engineer, for an invention for—"Improvements in the construction of railway wheels and axles." *Letters Patent sealed.*

GEDGE. 1st October 1855.

2176. JOHN GEDGE, of No. 4, Wellington Street South, Strand, in the County of Middlesex, Patent agent, for an invention for—"Improvements in the manufacture of braid."—*A communication from Claude Aimé Terme, of Saint Chamond, France.* *Provisional protection only.*

GEDGE.
1st October 1855.

2177. JOHN GEDGE, of No. 4, Wellington Street South, Strand, in the County of Middlesex, Patent agent, for an invention for—"Improvements in gas-meters."—*A communication from Mathieu Dauriac, of Toulouse, France. Provisional protection only.*

GEDGE.
1st October 1855.

2178. JOHN GEDGE, of No. 4, Wellington Street South, Strand, in the County of Middlesex, Patent agent, for an invention for—"Improvements in the preservation of grain."—*A communication from Louis Richer, of Solesme, France.*
Provisional protection only.

ILLINGWORTH.
1st October 1855.

2179. WILLIAM ILLINGWORTH, of Manchester, in the County of Lancaster, Gentleman, for an invention for—"Certain improvements in printing earthenware, china, or other ceramic manufactures." *Letters Patent sealed.*

RADCLIFFE.
1st October 1855.

2180. CHARLES RADCLIFFE, of Sowerby Bridge, in the County of York, Manufacturer, for an invention for—"Improvements in apparatus for moistening or damping woollen or other textile fabrics for finishing." *Letters Patent sealed.*

BELLFORD.
1st October 1855.

2181. AUGUSTE EDOUARD LORADOUX BELLFORD, of 32, Essex Street, Strand, London, Patent agent, for an invention for—"Improvements in ventilating hats or other coverings for the head."—*A communication.* *Letters Patent sealed.*

WILKINSON.
1st October 1855.

2182. GEORGE WILKINSON, of 17, Evan Street, Poplar, for an invention for—"Improvements in steering apparatus." *Provisional protection only.*

MITCHELL.
1st October 1855.

2183. JOHN MITCHELL, of Dunning's Alley, Bishopsgate Street Without, for an invention for—"Improvements in apparatus for washing and amalgamating ores and other matters." *Provisional protection only.*

KEMPE.
1st October 1855.

2184. WILLIAM KEMPE, of Holbeck Mills, Leeds, for an invention for—"An improvement in machinery for raising the pile on woollen and other cloths or fabrics."
Letters Patent sealed.

DEMING.
1st October 1855.

2185. JAMES HERVEY DEMING, of New York, United States of America, now residing at Paris, for an invention for—"Improvements in the construction of projectiles."—*A communication from Oliver R. Burnham, of New York.*
Provisional protection only.

AUGIER.
1st October 1855.

2186. JOSEPH FRANÇOIS VICTOR AUGIER, of No. 29, Rue de Chabrol, Paris, in the Empire of France, and of 4, South Street, Finsbury, London, Gentleman, for an invention for—"An improved apparatus for extracting the aroma from plants and flowers." *Letters Patent sealed.*

BAKER.
MILLER.
1st October 1855.

2187. GEORGE BAKER, of 149, High Street, Southwark, in the County of Surrey, Ironmonger, and CHARLES MILLER, of Flying Horse Yard, Southwark, in the County of Surrey aforesaid, Builder, for an invention for—"Improvements in the construction of register stoves." *Letters Patent sealed.*

DICKENS.
1st October 1855.

2188. THOMAS DICKENS, of Middleton, in the County of Lancaster, Silk dyer, for an invention for—"Improvements applicable to machinery for doubling and throwing silk, and for doubling other fibrous materials." *Provisional protection only.*

UCHATIUS.
1st October 1855.

2189. FRANZ UCHATIUS, of Vienna, Captain in the Austrian Service, for an invention for—"An improvement in the process of manufacturing cast steel."
Letters Patent sealed.

HOPE.
1st October 1855.

2190. GEORGE CURLING HOPE, of Hastings, in the County of Sussex, Designer and Publisher, for an invention for—"An improved method of producing figures, patterns, or designs upon textile fabrics, for the purposes of needlework."
Letters Patent sealed.

MUSGRAVE.
MUSGRAVE.
MUSGRAVE.
1st October 1855.

2191. JOHN RIDDEL MUSGRAVE, ROBERT MUSGRAVE, and JAMES MUSGRAVE, of Belfast, Ireland, for an invention for—"Improvements in stoves for cooking and heating." *Letters Patent sealed.*

SANDS.
2nd October 1855.

2192. ALEXANDER SANDS, of the City of Manchester, Iron founder, for an invention for—"Improvements in securing rails in railway chairs."—*Letters Patent sealed.*

CHADWICK. 2nd October 1855.

2193. JAMES CHADWICK, of Bank Wood, Chadesworth, near Glossop, in the County of Derby, Manager in the employ of Ralph and William Waller, for an invention for—"Certain improvements in machinery for carding cotton and other fibrous materials." *Provisional protection only.*

PIAN. 2nd October 1855.

2194. LAURENT MARIE RENÉ PIAN, of Paris, in the Empire of France, for an invention for—"An improved inkstand." *Letters Patent sealed.*

RENNIE. 2nd October 1855.

2195. GEORGE RENNIE, of the firm of George Rennie, John Keith Rennie, and George Banks Rennie, of Holland Street, Blackfriars, Engineers, for an invention for—"Improvements in steam-engine boilers as applied to the propulsion of vessels." *Letters Patent sealed.*

THRELFALL. KNOWLES. 2nd October 1855.

2196. RICHARD THRELFALL, of Preston, in the County of Lancaster, Gentleman, and WILLIAM KNOWLES, of the same place, Overlooker, for an invention for—"A certain improvement in looms for weaving." *Letters Patent sealed.*

HORTON. 2nd October 1855.

2197. WILLIAM HORTON, of Birmingham, in the County of Warwick, Operative Gun maker, for an invention for—"Improvements in the breech part of fire-arms." *Provisional protection only.*

BERNARD. 2nd October 1855.

2198. JULIUS BERNARD, of Club Chambers, Regent Street, in the County of Middlesex, Gentleman, for an invention for—"Improvements in the manufacture or production of boots and shoes or coverings for the feet, and in the machinery or apparatus and in the materials employed in such manufacture." *Letters Patent sealed.*

NEWTON. 2nd October 1855.

2199. WILLIAM EDWARD NEWTON, of the Office for Patents, 66, Chancery Lane, in the County of Middlesex, Civil Engineer, for an invention for—"An improved mode of evaporating, also for heating or cooking, applicable also to safes, settees, and other seats."—*A communication.* *Letters Patent sealed.*

BENVENUTI. 2nd October 1855.

2200. FRANÇOIS FORTUNÉ BENVENUTI, of Paris, France, and 4, South Street, Finsbury, London, Gentleman, for an invention for—"Certain improvements in typography." *Letters Patent sealed.*

BOUSFIELD. 2nd October 1855.

2201. GEORGE TOMLINSON BOUSFIELD, of Sussex Place, Loughborough Road, in the County of Surrey, for an invention for—"Improvements in locks for doors." *A communication.* *Letters Patent sealed.*

STOTT. 2nd October 1855.

2202. GEORGE LOUIS STOTT, of St. George's, in the County of Gloucester, for an invention for—"Improvements in the manufacture of carbonate of soda." *Provisional protection only.*

PEYTON. 2nd October 1855.

2203. RICHARD PEYTON, of Bordesley works, Birmingham, for an invention for—"An improvement in the manufacture of fences and gates where wrought iron is used." *Provisional protection only.*

RAMSCAR. 3rd October 1855.

2204. WILLIAM RAMSCAR, of the City of Manchester, in the County of Lancaster, Engineer, for an invention for—"Improvements in fire-arms, which improvements are also applicable to cannons and all kinds of field pieces." *Letters Patent sealed.*

GREAVES. 3rd October 1855.

2205. THOMAS GREAVES, of the City of Manchester, in the County of Lancaster, Veterinary Surgeon, for an invention for—"Improvements in the method or means of obtaining and employing motive-power." *Provisional protection only.*

PATTERSON. PATTERSON. 3rd October 1855.

2206. WILLIAM PATTERSON, Millwright and Engineer, of Batley, and GEORGE PATTERSON, Mechanic, of Sowerby Bridge, in the County of York, for an invention for—"Improvements in machinery or apparatus for moistening or damping woollen or other textile fabrics for finishing." *Stopped at second reference.*

BROOMAN. 3rd October 1855.

2207. RICHARD ARCHIBALD BROOMAN, of 166, Fleet Street, in the City of London, Patent Agent, for an invention for—"A method of ascertaining or indicating and regulating the height of water in steam-boilers." *A communication.* *Letters Patent sealed.*

DICKINSON. 3rd October 1855.

2208. JOHN DICKINSON, of Old Bailey, in the City of London, Paper manufacturer, for an invention for—"An improvement in the manufacture of paper." *Letters Patent sealed.*

WILKINSON. 3rd October 1855.

2209. ROBERT WILKINSON, of Staley Bridge, in the County of Chester, Mechanic, for an invention for—"Improvements in machinery or apparatus for carding cotton-wool and other fibrous substances." *Letters Patent sealed.*

NEWTON. 3rd October 1855.

2210. WILLIAM EDWARD NEWTON, of the Office for Patents, 66, Chancery Lane, in the County of Middlesex, Civil Engineer, for an invention for—"Improved machinery for separating gold and other metals from their ores."—*A communication.* *Provisional protection only.*

CROSSE. 4th October 1855.

2211. ROBERT AUGUSTUS CROSSE, of Bartholomew Lane, Bank, in the City of London, Gentleman, for an invention for—"Certain improvements in founding printers' type." *Provisional protection only.*

OLDHAM. 4th October 1855.

2212. HENRY OLDHAM, of Leeds, in the County of York, Overlooker, for an invention for—"An improvement in weaving textile fabrics." *Letters Patent sealed.*

GRUET. 4th October 1855.

2213. GEORGE FREDERICK GRUET, of Bordeaux, in the Empire of France, Merchant, for an invention for—"An improvement in the construction of lamps." *Letters Patent sealed.*

LANCASTER. 4th October 1855.

2214. JOHN LANCASTER, of Deptford, in the County of Kent, Horticulturist, for an invention for—"An improved water-proof material." *Letters Patent sealed.*

CORNFORTH. 4th October 1855.

2215. HENRY CORNFORTH, of Birmingham, in the County of Warwick, Manufacturer, for an invention for—"A new or improved manufacture of hooks and eyes." *Letters Patent sealed.*

RYLAND. 4th October 1855.

2216. THOMAS HENRY RYLAND, of Birmingham, in the County of Warwick, Manufacturer, for an invention for—"A new or improved manufacture of bracelets and other dress ornaments and ornamental dress fastenings." *Letters Patent sealed.*

SANDERS. SANDERS. 4th October 1855.

2217. FREDERICK GEORGE SANDERS, and THOMAS RICHARD SANDERS, Junior, of Poole, in the County of Dorset, for an invention for—"Improvements in the manufacture of pottery, earthenware, and other clay articles." *Provisional protection only.*

HARDY. 4th October 1855.

2218. CALEB HARDY, of Carstairs, in the County of Lanark, North Britain, Engine Driver, for an invention for—"Improvements in effecting communications between the guard and engine driver or between the various parts of a railway train." *Stopped at fiat.*

HAMILTON. 4th October 1855.

2219. WILLIAM HAMILTON, of St. Helen's Lodge, in the County of Hants, for an invention for—"Improvements in the construction of tables, chairs, sofas, and other articles of furniture." *Provisional protection only.*

MELDRUM. YOUNG. 4th October 1855.

2220. EDWARD MELDRUM, and JAMES YOUNG, both of Glasgow, in the County of Lanark, Merchants, for an invention for—"Improvements in the manufacture of certain salts of sodium and potassium." *Letters Patent sealed.*

BRIERLY. 4th October 1855.

2221. HENRY BRIERLY, of Chorley, in the County of Lancaster, Machinist, for an invention for—"Improvements in self-acting mules for spinning." *Stopped at fiat.*

OVER. 4th October 1855.

2222. HENRY OVER, of Cambridge, Cook and Confectioner, for an invention for—"A novel construction of gauge knife." *Provisional protection only.*

DEMAIT. 4th October 1855.

2223. FRANÇOIS MODESTE DEMAIT, of 39, Rue de l'Echiquier, Paris, in the Empire of France, and 4, South Street, Finsbury, London, Gentleman, for an invention for—"Certain improvements in the preservation of animal and vegetable substances." *Letters Patent sealed.*

HALKETT. 5th October 1855.

2224. PETER ALEXANDER HALKETT, of the Windham Club, St. James', in the County of Middlesex, for an invention for—"Improvements in the application of motive-power to, and in obtaining locomotion for, the cultivation of land." *Letters Patent sealed.*

GRAHAME. 5th October 1855.

2235. THOMAS GRAHAME, of Elmhurst Hall, Lichfield, Staffordshire, for an invention for—"Improvements in the construction of floating batteries or vessels in order to render them ball and shot proof." *Provisional protection only.*

PFEIFFER. 5th October 1855. — 2226. JEAN DANIEL PFEIFFER, of 1, Rue Princesse, Paris, for an invention for—"Improvements in the construction of knives or cutters." *Letters Patent sealed.*

SPENCE. 5th October 1855. — 2227. WILLIAM SPENCE, of 50, Chancery Lane, in the County of Middlesex, Patent agent, for an invention for—"Improvements in cards for carding cotton and other fibrous substances."—*A communication from Désiré Ambroise Crignon, of No. 31, Rue St. Julien, Rouen (Seine inférieure), in the Empire of France, Manufacturer of cards.* *Letters Patent sealed.*

HILL. 5th October 1855. — 2228. RICHARD HENRY HILL, of Castle Banks, Lewes, in the County of Sussex, Saddler and Harness maker, for an invention for—"A jointed back band for gig or brougham harness, affording instant relief to fallen horses, and always inclining to the draught of the traces." *Stopped at fiat.*

HOWELL. 5th October 1855. — 2229. JOSEPH BENNETT HOWELL, of Sheffield, in the County of York, for an invention for—"Improvements in the manufacture of steel castings for ordnance and other purposes." *Stopped at fiat.*

DICKENS. 5th October 1855. — 2230. THOMAS DICKENS, of Middleton, in the County of Lancaster, Silk Dyer, for an invention for—"Improvements in machinery or apparatus for spinning, doubling, and throwing silk, and doubling other fibrous materials." *Letters Patent sealed.*

WREN. 5th October 1855. — 2231. ELIZA CAROLINE WREN, of Tottenham Court Road, in the County of Middlesex, for an invention for—"An improved construction of child's cot." *Stopped at fiat.*

LEPAGE. 5th October 1855. — 2232. FRANÇOIS CHARLES LEPAGE, Literary Man, of Paris, Town in the French Empire, for an invention for—"A new composition or new compositions of materials which may be employed as a substitute for wood, leather, bone, metal, and other hard or plastic substances, and the method of manufacturing the same."—*Letters Patent sealed.*

ROFFE. 6th October 1855. — 2233. WILLIAM JOHN ROFFE, of Upper Holloway, in the County of Middlesex, Gentleman, for an invention for—"Improvements in stoves or furnaces." *Letters Patent sealed.*

COUTINHO. 6th October 1855. — 2234. ADOLPH COUTINHO, late of the Free Town of Hamburg, in Germany, now residing at Oldham, in the County of Lancaster, for an invention for—"Improvements in the means of obtaining motive-power or continuous motion."—*Letters Patent sealed.*

HOYLE. 6th October 1855. — 2235. BENJAMIN HOYLE, of Stand in Pilkington, in the County of Lancaster, Dyer, for an invention for—"Certain improvements in the process of dyeing." *Provisional protection only.*

WASHINGTON. 6th October 1855. — 2236. JAMES WASHINGTON, of Batley, near Dewsbury, in the County of York, Machinist, for an invention for—"Improvements in apparatus for sweeping chimneys or flues." *Letters Patent sealed.*

HESTER. 6th October 1855. — 2237. JAMES TORREY HESTER, of Oxford, Surgeon, for an invention for—"Improvements in invalid and children's chairs." *Letters Patent sealed.*

JOHNSON. 6th October 1855. — 2238. JOHN HENRY JOHNSON, of 47, Lincoln's Inn Fields, in the County of Middlesex, and of Glasgow, North Britain, Gentleman, for an invention for—"Improvements in apparatus for consuming smoke, to be applied to lamps and gas burners."—*A communication from Jean Baptiste Theodore Audry, of Paris, in the Empire of France, Silk Merchant.* *Provisional protection only.*

ROGERS. 6th October 1855. — 2239. WILLIAM ROGERS, of New Road, Whitechapel Road, in the County of Middlesex, Member of the Royal College of Veterinary Surgeons, for an invention of—"Improvements in fire-arms." *Letters Patent sealed.*

HART. 6th October 1855. — 2240. HERBERT WILLIAM HART, of Birmingham, in the County of Warwick, Gun maker, for an invention for—"An improved cannon for gun boats." *Provisional protection only.*

DENNER. 8th October 1855. — 2241. JOHN DENNER, of No. 11, Albion Grove West, Islington, in the County of Middlesex, Gentleman, for an invention for—"Improvements in furnaces for the consumption of smoke, drying tan and similar substances."—*Provisional protection only.*

HUBBARD.
8th October 1855.

2242. JOHN HUBBARD, of Albion Road, Hammersmith, in the County of Middlesex, for an invention for—"An improved sole for boots and shoes."
Letters Patent sealed.

ROTHERA.
8th October 1855.

2243. WILLIAM ROTHERA, of Hollins, in the County of Lancaster, Machine Maker, for an invention for—"Certain improvements in machinery or apparatus for manufacturing bolts, screw blanks, rivets, and other similar articles."
Letters Patent sealed.

JOHNSON.
8th October 1855.

2244. JOHN HENRY JOHNSON, of 47, Lincoln's Inn Fields, in the County of Middlesex, and of Glasgow, North Britain, Gentleman, for an invention for—"Improvements in machinery or apparatus for the transmission and conversion of motive-power."—*A communication from Jules François Louis Etienne Lesèneschal, of Paris, in the Empire of France, Engraver.* *Provisional protection only.*

JOHNSON.
8th October 1855.

2245. JOHN HENRY JOHNSON, of 47, Lincoln's Inn Fields, in the County of Middlesex, and of Glasgow, North Britain, Gentleman, for an invention for—"Improvements in the method of and apparatus for rolling iron, more particularly applicable to the manufacture of the tires of railway wheels."—*A communication from Jackson Brothers, Petin, Gaudet and Company, of Rive de Gier, and St. Chamond, in the Empire of France, Iron Manufacturers.* *Letters Patent sealed.*

HENRY.
8th October 1855.

2246. JAMES HARVEY HENRY, of Glasgow, for an invention for—"Improvements in floating vessels for carrying goods and passengers on the water."
Provisional protection only.

NEWTON.
8th October 1855.

2247. WILLIAM EDWARD NEWTON, of the Office for Patents, 66, Chancery Lane, in the County of Middlesex, Civil Engineer, for an invention for—"Improvements in condensers."—*A communication.* *Letters Patent sealed.*

WILLAN.
MILLS.
9th October 1855.

2248. ROBERT WILLAN, and DANIEL MILLS, of Blackburn, in the County of Lancaster, Machine Makers, for an invention for—"Improvements in looms."—*A communication.* *Provisional protection only.*

PARSONS.
9th October 1855.

2249. PERCEVAL MOSES PARSONS, of Duke Street, Adelphi, in the County of Middlesex, Civil Engineer, for an invention for—"Certain improvements in connecting and securing the joints of pipes and tubes." *Letters Patent sealed.*

MARTIEN.
9th October 1855.

2250. JOSEPH GILBERT MARTIEN, of Newark, New Jersey, in the United States of America, but now residing in London, for an invention for—"Improvements in the manufacture of iron and steel." *Letters Patent sealed.*

JAY.
9th October 1855.

2251. WILLIAM CHICKALL JAY, of Regent Street, in the County of Middlesex, Warehouseman, for an invention for—"An improved manufacture of collapsible hat or bonnet."—*A communication.* *Provisional protection only.*

ROWLAND.
ROWLAND.
9th October 1855.

2252. ELLIS ROWLAND, and JAMES ROWLAND, both of Manchester, in the County of Lancaster, Engineers, for an invention for—"Certain improvements in locomotive steam-engines." *Provisional protection only.*

MURDOCH.
9th October 1855.

2253. JAMES MURDOCH, of 7, Staple Inn, in the County of Middlesex, Patent agent, for an invention for—"Improvements in extracting colouring matter from lichens containing such colouring matter."—*A communication.* *Letters Patent sealed.*

MURDOCH.
9th October 1855.

2254. JAMES MURDOCH, of 7, Staple Inn, in the County of Middlesex, Patent agent, for an invention for—"Improvements in extracting colouring matter from lichens containing such colouring matter."—*A communication.* *Letters Patent sealed.*

BELLEVILLE.
9th October 1855.

2255. JULIEN FRANÇOIS BELLEVILLE, Civil Engineer, of Paris, in the French Empire, for an invention for—"An improved smoke consuming apparatus."
Letters Patent sealed.

VION.
9th October 1855.

2256. ETIENNE FRANÇOIS VION, of Paris, in the Empire of France, for an invention for—"An improved tea or coffee pot." *Stopped at fiat.*

LANCASTER.
SMITH.
9th October 1855.

2257. WILLIAM HENRY LANCASTER, residing at No. 24, Hatfield Street, in the Township of West Derby, and JAMES SMITH, of Sefton Street, Toxteth Park, both in the Borough of Liverpool, and County of Lancaster, for—"An invention for consuming smoke and for generating and diffusing heat in furnaces and in furnace or other flues." *Letters Patent sealed; no specification filed.*

GOLDNER.
9th October 1855.

2258. STEPHAN GOLDNER, of Wimpole Street, in the County of Middlesex, for an invention for—"Improvements in apparatus used in cooking and preserving animal and vegetable matter." *Letters Patent sealed.*

LEROY.
9th October 1855.

2259. NARCISSE LEROY, of 15, Rue de l'Eglise Batignolles, Paris, Railway Contractor, for an invention for—"Improvements in the construction of railway carriages." *Letters Patent sealed.*

ONIONS.
10th October 1855.

2260. JOHN ONIONS, of No. 41, Wellington Place, Blackfriars Road, in the Borough of Southwark, Engineer, for an invention for—"A certain mode of collecting and means of applying for use the smoke, heated air, and other gases, arising from engine and other furnace fires." *Stopped at fiat.*

GEDGE.
10th October 1855.

2261. JOHN GEDGE, of No. 4, Wellington Street South, Strand, in the County of Middlesex, Patent agent, for an invention for—"Improvements in machinery or apparatus for placing on card drawings used in various manufactories." - *A communication from Mr. Henry Sauzay, of Lyons, France.* *Provisional protection only.*

FAIRBAIRN.
FAIRBAIRN.
FAIRBAIRN.
10th October 1855.

2262. THOMAS FAIRBAIRN, WILLIAM ANDREW FAIRBAIRN, and GEORGE FAIRBAIRN, of the City of Manchester, in the County of Lancaster, Engineers, for an invention for—"Improvements in the mode or method of casting ordnance, which improvements are also applicable to casting cylinders and other similar vessels." *Provisional protection only.*

PYNE.
MALAM.
10th October 1855.

2263. RICHARD WILLIAM PYNE, of Southwark, in the County of Surrey, Builder, and WILLIAM MALAM, of London Road, in the same County, Gas Engineer, for an invention for—"An improvement in the manufacture of gas." *Stopped at fiat.*

NEWTON.
10th October 1855.

2264. WILLIAM EDWARD NEWTON, of the Office for Patents, 66, Chancery Lane, in the County of Middlesex, Civil Engineer, for an invention for—"Improved machinery for dressing flour." - *A communication.* *Letters Patent sealed.*

PARRY.
IVERS.
10th October 1855.

2265. JOHN PARRY, of Lower Broughton, in the County of Lancaster, Manager, and SAMUEL IVERS, of Salford, in the same County, Mechanic, for an invention for—"Certain improvements in looms for weaving." *Provisional protection only.*

ODDIE.
LANCASTER.
LANCASTER.
10th October 1855.

2266. THOMAS ODDIE, of Preston, in the County of Lancaster, Manager, WILLIAM LANCASTER, of the same place, Manufacturer, and JOHN LANCASTER, of the same place, Manager, for an invention for—"Certain improvements in looms for weaving." *Letters Patent sealed.*

THORNTON.
THORNTON.
THORNTON.
THORNTON.
10th October 1855.

2267. JOHN THORNTON, ALBERT THORNTON, WILLIAM THORNTON, and HENRY THORNTON, each and all of the Town and County of the Town of Nottingham, Mechanical Designers, for an invention for—"Improvements in machinery for the manufacture of looped or knitted fabrics." *Letters Patent sealed.*

HÉBERT.
10th October 1855.

2268. DENIS HÉBERT, of 28, Rue Marbeuf, Paris, Director of the Boulangerie Economique, for an invention for—"Improvements in heating and arranging ovens." *A communication from Alexis Lavine.* *Letters Patent sealed.*

TAYLOR.
10th October 1855.

2269. WILLIAM CREES TAYLOR, of 11, Devonshire Road, Greenwich, in the County of Kent, for an invention for—"Improvements in marine steam-engines." *Stopped at fiat.*

REINAGLE.
11th October 1855.

2270. RAMSAY RICHARD REINAGLE, of No. 12, King William Street, Strand, London, in the County of Middlesex, Artist, for an invention for—"Improvements in barrows, hand-trucks, and other similar vehicles." *Provisional protection only.*

HERBERT.
11th October 1855.

2271. JANE ANN HERBERT, of No. 5, Waterden Place, Guildford, in the County of Surrey, Widow, for an invention for—"Improvements in propellers for propelling steam ships or other vessels, and which are denominated the Whinfield or conical propeller."—*A communication from William D. Jones, of Pokeepsie, and Henry Whinfield, of New York, both in the State of New York, United States of America. Complete specification.* *Letters Patent sealed.*

GILPIN.
11th October 1855.

2272. JOSEPH GILPIN, of Leeds, in the County of York, Manufacturer, for an invention for—"An improved 'raising-gig' to be employed in the manufacture of woollen cloths." *Provisional protection only.*

FAIRBAIRN.
HASLAM.
11th October 1855.

2273. WILLIAM ANDREW FAIRBAIRN, of the City of Manchester, Engineer, and GEORGE HASLAM, of the said City, Mechanic, for an invention for—"Improvements applicable to locomotive engines and carriages." *Letters Patent sealed.*

BAYLEY.
QUARMBY.
11th October 1855.

2274. WILLIAM BAYLEY, of Staleybridge, in the County of Lancaster, Cotton spinner, and JOHN QUARMBY, of the same place, Manager, for an invention for—"Improvements in machines for carding cotton and other fibrous materials." *Letters Patent sealed.*

SPENCE.
11th October 1855.

2275. PETER SPENCE, of Pendleton, in the County of Lancaster, Manufacturing Chemist, for an invention for—"Improvements in the production of sulphate of alumina, to be used in the fluid state or to be rendered into the solid condition, known commercially as cake alum." *Letters Patent sealed.*

ADAMS.
11th October 1855.

2276. WILLIAM BRIDGES ADAMS, of No. 1, Adam Street, Adelphi, in the County of Middlesex, Engineer, for an invention for—"Improvements in machinery and tools for cutting and carving wood and other materials." *Stopped at fiat.*

WESTROP.
SHARMAN.
11th October 1855.

2277. JOHN KING WESTROP, of Staining Lane, and EDWARD ALFRED SHARMAN, of 35, Noble Street, both in the City of London, for an invention for—"An improvement in the manufacture of gloves made of looped fabrics of silk, cotton, and linen." *Letters Patent sealed.*

TILGHMAN.
11th October 1855.

2278. RICHARD ALBERT TILGHMAN, of the City of Philadelphia, United States of America, for an invention for—"Improvements in treating fatty and oily substances." *Letters Patent sealed.*

CLARK.
12th October 1855.

2279. JOHN CLARK, of the Strand, in the County of Middlesex, Lamp manufacturer, for an invention for—"Cooking apparatus for the pocket." *Stopped at fiat.*

PULS.
12th October 1855.

2280. FRANCIS PULS, of Soho Square, in the County of Middlesex, Chemist, for an invention for—"Improvements in electro-coating metals or alloys of metals, with other metals or alloys of metals." *Provisional protection only.*

KAY.
RICHARDSON.
MALLINSON.
12th October 1855.

2281. ROBERT HENRY KAY, and ALFRED THOMAS RICHARDSON, Manufacturers, and GEORGE MALLINSON, Pattern Designer, all of the City of Manchester, for an invention for—"Improvements in the manufacture of plain and ornamental woven fabrics." *Letters Patent sealed.*

MOORE.
12th October 1855.

2282. THOMAS MOORE, of Retford, in the County of Nottingham, Engineer, for an invention for—"An improved mill for grinding corn and other grain." *Letters Patent sealed.*

LYALL.
12th October 1855.

2283. WILLIAM LYALL, of Amiens, in the French Empire, Flax Spinner, for an invention for—"Improvements in spinning-machinery, applicable also to roving-machinery." *Letters Patent sealed.*

WARD.
12th October 1855.

2284. CORNELIUS WARD, Musical instrument maker, 36, Great Titchfield Street, Marylebone, in the County of Middlesex, for an invention for—"Improvements in the construction of the musical instruments designated clarionets." *Provisional protection only.*

GARDNER.
12th October 1855.

2285. HENRY GARDNER, of Oldner Farm, Chipping Norton, for an invention for—"Improvements in machinery for dressing or cleaning wheat, grain, and seeds." *Letters Patent sealed.*

LIVINGSTON. 12th October 1855.

2286. JOHN LIVINGSTON, of Leeds, in the County of York, for an invention for—"Improvements in certain parts of the permanent way of railways." *Provisional protection only.*

STAADT. 12th October 1855.

2287. ADOLPH STAADT, of 3, Grande Place, Brussels, in the Kingdom of Belgium, for an invention for—"Improvements in obtaining motive-power when gravity and steam or expansive fluids are used."—*Partly a communication from Bernard Schroeder.* *Provisional protection only.*

COCKINGS. POTTS. 13th October 1855.

2288. JAMES SEPTIMUS COCKINGS, Civil Engineer, and FERDINAND POTTS, Patent tube manufacturer, both of Birmingham, in the County of Warwick, for an invention for—"Certain improvements in sockets for holding whips and candles, parts of which are also applicable to the sockets or irons for holding carriage and other lamps." *Letters Patent sealed.*

GREAVES. 13th October 1855.

2289. HUGH GREAVES, of New Palace Yard, in the City of Westminster, Civil Engineer, for an invention for—"Improvements in the construction of steam-boilers." *Letters Patent sealed.*

THIBIERGE. 13th October 1855.

2290. GERMAIN ADOLPHE THIBIERGE, Apothecary, of Versailles, a Town in the French Empire, for an invention for—"Certain improvements in manufacturing chlorine, part of which are applicable for obtaining certain accessory products." *Letters Patent sealed.*

DEWRANCE. 13th October 1855.

2291. JOHN DEWRANCE, of Barge Yard, Bucklersbury, in the City of London, Engineer, for an invention for—"An improvement in the frames of pianofortes." *Letters Patent sealed.*

EAVESTAFF. 13th October 1855.

2292. WILLIAM GLEN EAVESTAFF, of Great Russell Street, in the County of Middlesex, Pianoforte manufacturer, for an invention for—"Improvements in the construction of pianofortes." *Provisional protection only.*

ULLRICH. 13th October 1855.

2293. LOUIS ULLRICH, of Prague, in Bohemia, and of the Office for Patents, 4, Trafalgar Square, Charing Cross, for an invention for—"Improvements in the means of indicating the number of persons entering an omnibus or other carriage, any theatre, or other building." *Provisional protection only.*

MOSELEY. 13th October 1855.

2294. JOHN MOSELEY, of Birmingham, in the County of Warwick, Engineer, for an invention for—"Certain improvements in machinery for cleansing linen and other fibrous materials." *Provisional protection only.*

HEMSLEY. HEMSLEY. 13th October 1855.

2295. THOMAS and WILLIAM HEMSLEY, of Melbourne, near Derby, for an invention for—"An improvement in the manufacture of embossed and craped fabrics." *Letters Patent sealed.*

BOUSFIELD. 13th October 1855.

2296. GEORGE TOMLINSON BOUSFIELD, of Sussex Place, Loughborough Road, Brixton, in the County of Surrey, for an invention for—"Improvements in power looms."—*A communication.* *Letters Patent sealed.*

LOZANO. 13th October 1855.

2297. MANUEL PEREZ LOZANO, of Crutched Friars, in the City of London, for an invention for—"Improvements in treating pyrites and ores containing sulphur, in obtaining sulphuretted hydrogen, and in precipitating copper from solutions."—*A communication.* *Letters Patent sealed.*

BOUSFIELD. 13th October 1855.

2298. GEORGE TOMLINSON BOUSFIELD, of Sussex Place, Loughborough Road, Brixton, in the County of Surrey, for an invention for—"Improvements in looms suitable for weaving wire fabrics."—*A communication.* *Letters Patent sealed.*

STENHOUSE. 13th October 1855.

2299. JOHN STENHOUSE, of 15, Upper Barnsbury Street, Islington, for an invention for—"Improvements in the preparation of decolourizing materials." *Letters Patent sealed.*

LEFTWICH. 15th October 1855.

2300. CHARLES LEFTWICH, of No. 21, Munster Street, Regent's Park, County of Middlesex, Lead merchant, for an invention for—"Improvements in water-closets." *Provisional protection only.*

MICKLETHWAITE. 15th October 1855.

2301. JOHN MICKLETHWAITE, of Leipsig, Gentleman, for an invention for—"An improvement in propelling and steering vessels." *Provisional protection only.*

DODDS.
15th October 1855.

2302. THOMAS WEATHERBURN DODDS, of the Holmes Engine and Railway works, Rotherham, in the County of York, Engineer, for an invention for—"Improvements in fire-arms and ordnance, and in the projectiles to be used therewith."
Letters Patent sealed.

KENT.
15th October 1855.

2303. SAMUEL KENT, of Liverpool, in the County of Lancaster, Bookseller, for an invention for—"Improvements in purifying and measuring water, parts of which are applicable to measuring other fluids." *Letters Patent sealed; no specification filed.*

BENTON.
15th October 1855.

2304. ROBERT BENTON, of Birmingham, Engineer, Surveyor and Land agent, for an invention for—"Improvements in obtaining motive-power by leverage."
Letters Patent sealed; no specification filed.

BROWN.
BROWN.
15th October 1855.

2305. JAMES MILLER BROWN and THOMAS BROWN, of 165, Piccadilly, for an invention for—"Improvements in the manufacture of folding chairs."
Letters Patent sealed.

NEGRETTI.
ZAMBRA.
15th October 1855.

2306. ENRICO ANGELO LUDOVICO NEGRETTI and JOSEPH WARREN ZAMBRA, both of Hatton Garden, in the City of London, Meteorological Instrument makers, for an invention for—"Improvements applicable to self registering gauges, thermometers, barometers, and other mercurial meteorological instruments."
Letters Patent sealed.

NORMANDY.
16th October 1855.

2307. LEWIS NORMANDY, of 67, Judd Street, Brunswick Square, Civil Engineer, for an invention for—"Improvements in the mode of writing and printing music to facilitate the study thereof."—*A communication from L'Abbé Eugène Cormier.*
Stopped at fiat.

THOMSON.
16th October 1855.

2308. GEORGE THOMSON, of Glasgow, in the County of Lanark, North Britain, Engineer, for an invention for—"Improvements in steam-engines."
Letters Patent sealed.

COTTON.
16th October 1855.

2309. WILLIAM COTTON, of Loughborough, in the County of Leicester, Manufacturer, for an invention for—"Improvements in the manufacture of looped fabrics."
Letters Patent sealed.

CHURCH.
16th October 1855.

2310. WILLIAM CHURCH, of Birmingham, in the County of Warwick, Engineer, for an invention for—"An improvement or improvements in the manufacture of ordnance." *Letters Patent sealed.*

WILKINSON.
16th October 1855.

2311. EDWARD WILKINSON, of Woodhouse, in the County of York, for an invention for—"An improved mode of extracting grease from woollen, cotton, and worsted waste." *Letters Patent sealed.*

FORREST.
16th October 1855.

2312. JOHN FORREST, of Dears Place, Somers Town, in the County of Middlesex, Mineralogist, for an invention for—"An improved mode of extracting metals from their ores." *Letters Patent sealed.*

NEWTON.
16th October 1855.

2313. WILLIAM EDWARD NEWTON, of the Office for Patents, 66, Chancery Lane, in the County of Middlesex, Civil Engineer, for an invention for—"Improvements in the construction of fire-arms."—*A communication.* *Letters Patent sealed.*

CLAEIJS.
16th October 1855.

2314. THÉODORE AUGUSTIN CLAEIJS, of Bruxelles, in the Kingdom of Belgium, Engineer, for an invention for—"Improvements in the manufacture of corks and bungs." *Letters Patent sealed; no specification filed.*

FRASER.
16th October 1855.

2315. JAMES FRASER, of Jermyn Street, in the County of Middlesex, Gentleman, for an invention for—"An improvement in the manufacture of paper or paper pulp."—*A communication.* *Letters Patent sealed.*

CROSSLEY.
BEAUMONT.
17th October 1855.

2316. WILLIAM CROSSLEY, and SAMUEL BEAUMONT, both of Hulme, in the City of Manchester, Mechanics, for an invention for—"Improvements in the manufacture of cement." *Provisional protection only.*

BESSEMER.
17th October 1855.

2317. HENRY BESSEMER, of Queen Street Place, New Cannon Street, in the City of London, for an invention for—"Improvements in the manufacture of anchors." *Letters Patent sealed.*

CLÉMENT.
17th October 1855.

2318. JULES HYPPOLITE CLÉMENT, of Paris (France), Proprietor, for an invention for—"An improved break for railway carriages, parts of which are applicable to breaks for other purposes." *Letters Patent sealed.*

BESSEMER. 17th October 1855. — **2319.** HENRY BESSEMER, of Queen Street Place, New Cannon Street, in the City of London, for an invention for—"Improvements in the manufacture of railway bars." *Letters Patent sealed.*

THOMSON. 17th October 1855. — **2320.** WILLIAM THOMSON, of the Town and County of Perth, North Britain, Carriage builder, for an invention for—"Improvements in four wheeled carriages." *Provisional protection only.*

BESSEMER. 17th October 1855. — **2321.** HENRY BESSEMER, of Queen Street Place, New Cannon Street, in the City of London, for an invention for—"Improvements in the manufacture of cast steel." *Letters Patent sealed.*

MACKINLAY. 17th October 1855. — **2322.** EBENEZER MACKINLAY, of Glasgow, in the County of Lanark, North Britain, Manager, for an invention for—"Improvements in reeling apparatus for winding yarn into hanks." *Stopped at fiat.*

BESSEMER. 17th October 1855. — **2323.** HENRY BESSEMER, of Queen Street Place, New Cannon Street, in the City of London, for an invention for—"Improvements in metal beams, girders, and tension bars, used in the construction of roofs, floors, and other parts of buildings, and in the construction of viaducts and suspension and other bridges." *Letters Patent sealed.*

WALTON. 17th October 1855. — **2324.** WILLIAM HENRY WALTON, of the City of Glasgow, in the County of Lanark, Engineer, for an invention for—"An improved machine for carding, combing, or preparing fibrous substances." *Letters Patent sealed.*

BESSEMER. 17th October 1855. — **2325.** HENRY BESSEMER, of Queen Street Place, New Cannon Street, in the City of London, for an invention for—"Improvements in the manufacture of ordnance and in the projectiles to be used therewith." *Letters Patent sealed.*

HALCOMBE. 17th October 1855. — **2326.** JOHN JOSEPH HALCOMBE, of Magdalen College, Cambridge, for an invention for—"Improvements in gates." *Provisional protection only.*

BESSEMER. 17th October 1855. — **2327.** HENRY BESSEMER, of Queen Street Place, New Cannon Street, in the City of London, for an invention for—"Improvements in the manufacture of railway wheels." *Letters Patent sealed.*

AYCKBOURN. 17th October 1855. — **2328.** FREDERICK AYCKBOURN, of 30, Palace New Road, Lambeth, Gentleman, for an invention for—"An improved apparatus for brushing and cleaning of boots, shoes, and trousers." *Provisional protection only.*

PITMAN. 17th October 1855. — **2329.** JOHN TALBOT PITMAN, of the American and European Patent Offices, 67, Gracechurch Street, London, for an invention for—"An improvement in fire-arms."—*A communication from James H. Merrill, of Baltimore, Maryland, in the United States of America.* *Letters Patent sealed.*

TAYLOR. 17th October 1855. — **2330.** THOMAS TAYLOR, of the Patent Saw Mills, Manchester, in the County of Lancaster, for an invention for—"Improvements in apparatus for extinguishing fire by means of water, part of which is also applicable to governing the discharge of fluids for other purposes." *Letters Patent sealed.*

ADCOCK. 17th October 1855. — **2331.** JOHN ADCOCK, of Marlborough Road, Dalston, in the County of Middlesex, Mechanician, for an invention for—"Improved apparatus for measuring and indicating the distance travelled by ships or other vessels." *Letters Patent sealed.*

HARDING. 17th October 1855. — **2332.** THOMAS RICHARDS HARDING, of Leeds, in the County of York, Hackle comb and gill manufacturer, for an invention for—"Improvements in combs, gills, and hackles used in the preparing and manufacturing of flax, silk, wool, or other fibrous substances, and in combs for combing the human or other hair."—*Letters Patent sealed.*

JONES. 18th October 1855. — **2333.** CHARLES EDWIN JONES, of Huddersfield, in the County of York, Gentleman, for an invention for—"Certain improvements in machinery for raising water and other liquids, by means of a combination of the principle of the accumulation of force by compression of air or other elastic fluids and that of centrifugal force, the more readily to obtain increased mechanical power thereby." *Letters Patent sealed.*

WAKEFIELD. 18th October 1855.

2334. JOHN WAKEFIELD, of Birmingham, in the County of Warwick, Machinist, for an invention for—"Improvements in machinery used in the manufacture of screw blanks, nails, pins, rivets, and other similar articles." *Letters Patent sealed.*

GLASS. 18th October 1855.

2335. WILLIAM GLASS, Analytical Chemist, 2, Dahlia Cottages, Millwall, Poplar, for an invention for—"Improvements in obtaining a deodorizing and disinfecting material." *Letters Patent sealed.*

STATHAM. 18th October 1855.

2336. SAMUEL STATHAM, of Islington, in the County of Middlesex, Gentleman, for an invention for—"Improvements in electric telegraph cables." *Letters Patent sealed.*

GRAHAM. 18th October 1855.

2337. DOCTOR GRAHAM, of Over Darwen, in the County of Lancaster, Manufacturer, for an invention for—"Improvements in the manufacture of paper hangings, and in machinery to be used in such manufacture."—*A communication.* *Letters Patent sealed.*

GRAHAM. 18th October 1855.

2338. JOHN GRAHAM, of Aughton, in the County of Lancaster, of the firm of Kay and Hilton, Liverpool, Millstone manufacturers, for an invention for—"Improved machinery for cleansing and dressing rice and other grain."—*Provisional protection only.*

WAGSTAFF. 18th October 1855.

2339. JOHN CHEESMAN WAGSTAFF, of 20, Grosvenor Street, in the County of Middlesex, for an invention for—"Improvements in the manufacture of seamless garments and other seamless fabrics."—*Partly a communication.* *Letters Patent sealed.*

STIRLING. 18th October 1855.

2340. JOHN DAVIE MORRIES STIRLING, of the Larches, near Birmingham, for an invention for—"Improvements in coating silver, copper, zinc, and iron, and alloys of those metals." *Letters Patent sealed.*

SMITH. 19th October 1855.

2341. JOHN SMITH, of No. 32, Brydges Street, Covent Garden, in the County of Middlesex, Gentleman, for an invention for—"Improvements in the construction of bedsteads, such improvements being applicable to carriages, ambulances, and other articles." *Letters Patent sealed.*

TATHAM. 19th October 1855.

2342. WILLIAM TATHAM, of Rochdale, in the County of Lancaster, Machine maker, for an invention for—"Improvements in machinery or apparatus for preparing, spinning, doubling, and winding cotton-wool, flax, silk, or other fibrous substances." *Letters Patent sealed.*

GILBEE. 19th October 1855.

2343. WILLIAM ARMAND GILBEE, of the English and Foreign Patent Office, 39, Rue de l'Echiquier, Paris, France, and of 4, South Street, Finsbury, London, for an invention for—"Improvements in the application of silicate of potash to hardening and preserving stones and calcareous materials."—*A communication.* *Letters Patent sealed.*

SMITH. 19th October 1855.

2344. WILLIAM SMITH, of No. 10, Salisbury Street, Adelphi, Civil Engineer, for an invention for—"Improvements in sewing-machines."—*A communication.* *Letters Patent sealed.*

BASFORD. 19th October 1855.

2345. WILLIAM BASFORD, of Penclawd, in the County of Glamorgan, for an invention for—"Improvements in the purification of coal gas, and for obtaining a residuum therefrom."—*Complete specification.* *Letters Patent sealed.*

ELCE. 19th October 1855.

2346. JOHN ELCE, of the City of Manchester, Machine maker, for an invention for—"Improvements in self acting mules for spinning cotton and other fibrous materials." *Provisional protection only.*

GILLER. 19th October 1855.

2347. HENRY GILLER, of Southampton Street, in the City of Westminster, Manufacturer, for an invention for—"An improvement in globes and shades for gas and other lights." *Letters Patent sealed.*

SMITH. 19th October 1855.

2348. NATHANIEL SMITH, of Thrapstone, in the County of Northampton, Engineer, for an invention for—"Improvements in mills for reducing grain and other substances." *Provisional protection only.*

FIELD. JEFFREYS. 19th October 1855.

2349. WILLIAM FIELD, and EDWARD JEFFREYS, both of Shrewsbury, in the County of Salop, Gentlemen, for an invention for—"Improved means for securing the rails of railways in their chairs or bearings." *Letters Patent sealed.*

CRAVEN. PICKLES. 20th October 1855.	2350 THOMAS CRAVEN, Manager of a mill, and MATTHEW PICKLES, Overlooker, both of Burnsall, in the County of York, for an invention for—"Improvements in weaving." *Letters Patent sealed.*
MASSIP. 20th October 1855.	2351. PIERRE ARNAUD MASSIP, of 30, Rue de l'Echiquier, Paris, and 4, South Street, Finsbury, London, Gentleman, for an invention for—"A machine for preparing hat linings."—*A communication from Dear Bros. of New Orleans. Letters Patent sealed.*
PARANT. 20th October 1855.	2352. PIERRE ANTOINE HENRY PARANT, Ceramic materials and china ware manufacturer, in Limoges, France, for an invention for—"Improvements in manufacturing millstones." *Letters Patent sealed.*
DODGE. 20th October 1855.	2353. NATHANIEL SHATTSWELL DODGE, of Saint Paul's Church Yard, in the City of London, Merchant and India-rubber cloth manufacturer, for an invention for—"Improvements in machinery or apparatus for spreading or distributing waterproofing or similar compositions over webs or sheets."—*A communication. Letters Patent sealed.*
VALENTINE. FOSTER. HAWORTH. 20th October 1855.	2354. THOMAS VALENTINE, and DANIEL FOSTER, both of Belfast, in the County of Antrim, Flax spinners and manufacturers, and GILES HAWORTH, of the same place, Loom Manager, for an invention for—"Improvements in power looms." *Letters Patent sealed.*
WHITAKER. 20th October 1855.	2355. FREDERIC WHITAKER, of Murray Street, New North Road, for an invention for—"Improvements in the construction of sewing-machines." *Letters Patent sealed.*
GAUDIBERT. 20th October 1855.	2356. HYPOLYTE GAUDIBERT, of Rue de l'Arbre sec, Paris, in the Empire of France, Watch and clock maker, for an invention for—"An improved construction of guard for preventing surreptitious removal of watches, purses, pocket-books and other articles, from the person." *Letters Patent sealed; no specification filed.*
WOODROW. 20th October 1855.	2357. HENRY WOODROW, of Wood Street, Cheapside, in the City of London, Shirt manufacturer, for an invention for—"Improvements in shirts." *Letters Patent sealed.*
TEALL. 22nd October 1855.	2358. WILLIAM TEALL, of Wakefield, in the County of York, Engineer, for an invention for—"A mode of treating certain materials containing fatty or oily substances in order to extract those fatty or oily substances therefrom." *Letters Patent sealed.*
PARKES. 22nd October 1855.	2359. ALEXANDER PARKES, of Burry, Port Llanelly, County of Carmarthen, South Wales, for an invention for—"Certain preparations of oils for and solutions used when waterproofing, and for the manufacture of various articles by the use of such compounds." *Letters Patent sealed.*
M'GLASHAN. FIELD. 22nd October 1855.	2360. ALEXANDER M'GLASHAN, and EDWARD FIELD, both of the Coal Yard, Drury Lane, London, Engineers, for an invention for—"Improvements in printing-presses." *Letters Patent sealed.*
LENNY. 22nd October 1855.	2361. CHARLES LENNY, of Croydon, in the County of Surrey, for an invention for—"Improvements in carriages." *Letters Patent sealed.*
LEROUX. MARTIN. 22nd October 1855.	2362. PIERRE ALEXANDRE LEROUX, Chemist, and LOUIS RÉNE MARTIN, Merchant, both of Paris, in the Empire of France, for an invention for—"Combining a resinous matter with oils or fatty bodies in order to obtain various useful products therefrom."—*Complete specification.* *Letters Patent sealed.*
SCULLY. HEYWOOD. 22nd October 1855.	2363. VINCENT SCULLY, Esquire, and BENNETT JOHNS HEYWOOD, Gentleman, both of the City of Dublin, for an invention for—"Improvements in clips or holders for suspending railway tickets and other small articles." *Letters Patent sealed.*
MILLIGAN. 23rd October 1855.	2364. DESIRÉE MILLIGAN, of Upper Seymour Street, in the County of Middlesex, wife of Thomas Milligan, of Lima, South America, for an invention for—"Improvements in the manufacture of piano-fortes." *Stopped at first reference.*
WILSON. 23rd October 1855.	2365. WILLIAM WILSON, of the City of Manchester, Agricultural implement maker, for an invention for—"Certain improvements in machinery for crushing grain and other substances." *Provisional protection only.*

GREGORY.
JILLINGS.
23rd October 1855.

2366. ALFRED GREGORY, of 21, Church Street, in the parish of Christchurch, in the County of Surrey, Plumber, and JOHN JILLINGS, of Temple Street, Whitefriars, in the City of London, for an invention for—"Improvements in cleansing the basin or pan of waterclosets and in apparatus for the same." *Letters Patent sealed.*

OPPENHEIMER.
23rd October 1855.

2367. ADOLPHUS OPPENHEIMER, of Manchester, in the County of Lancaster, Manufacturer, for an invention for—"Certain improvements in machinery or apparatus for stretching or distending velvets and other piled goods or fabrics, for the purpose of cutting the pile of such goods." *Provisional protection only.*

COLLIER.
BAILEY.
HORSFALL.
23rd October 1855.

2368. GEORGE COLLIER, WILLIAM BAILEY, and RICHARD HORSFALL, all of Halifax, in the County of York, for an invention for—"Improvements in drying wool and other fibrous substances." *Stopped at fiat.*

BELLAMY.
23rd October 1855.

2369. JOHN BELLAMY, of the Lower Road, Islington, in the County of Middlesex, for an invention for—"Improvements in graining and in producing imitative ornamental surfaces, and in certain instruments or apparatus to be employed for such purposes." *Letters Patent sealed.*

ROBERTS.
DALE.
23rd October 1855.

2370. THOMAS ROBERTS, and JOHN DALE, of Manchester, Manufacturing Chemists, in the County of Lancaster, for an invention for—"Certain improvements in treating and preparing amylaceous substances for the purposes of stiffening." *Letters Patent sealed.*

RICHARDSON.
23rd October 1855.

2371. THOMAS RICHARDSON, of Portland Place, Newcastle-on-Tyne, for an invention for—"Improvements in the manufacture of glass and clay wares." *Letters Patent sealed.*

SHEARS.
23rd October 1855.

2372. WILLIAM SHEARS, of Bankside, Southwark, for an invention for—"An improvement in cases or magazines for gunpowder or other explosive preparations or compounds." *Letters Patent sealed.*

WEBER.
23rd October 1855.

2373. HENRY WEBER, Mechanician, of Zurich, in the Swiss Confederation, for an invention for—"Certain improvements in apparatus for motive-power." *Provisional protection only.*

NEWTON.
23rd October 1855.

2374. ALFRED VINCENT NEWTON, of the Office for Patents, 66, Chancery Lane, in the County of Middlesex, Mechanical Draughtsman, for an invention for—"Improvements in machinery for making rope and cordage."—*A communication.* *Letters Patent sealed.*

SMITH.
24th October 1855.

2375. JAMES SMITH, of Liverpool, in the County Palatine of Lancaster, Baker, for an invention for—"Improvements in apparatus for giving alarm signals and for extinguishing fires." *Letters Patent sealed.*

BEVAN.
24th October 1855.

2376. JOHN BEVAN, of No. 2, High Street, Deptford, in the County of Kent, Gentleman, for an invention for—"Improvements in projectiles." *Provisional protection only.*

RIVES.
24th October 1855.

2377. JACQUES RIVES, of 53, Boulevard S^{t} Martin, Paris, for an invention for—"Improvements in looms for weaving." *Letters Patent sealed.*

HEALEY.
FOSTER.
LOWE.
24th October 1855.

2378. JOHN HEALEY, Engineer, and JOHN FOSTER, and JOHN LOWE, Spindle makers, all of Bolton-le-Moors, in the County of Lancaster, for an invention for—"Improvements in machinery to be used for drawing, moulding, forming, and forging various articles of metal." *Letters Patent sealed.*

JOHNSON.
24th October 1855.

2379. JOHN HENRY JOHNSON, of 47, Lincoln's Inn Fields, in the County of Middlesex, and of Glasgow, North Britain, Gentleman, for an invention for—"Improvements in lamps."—*A communication from Abraham Coates, of the City of New York, in the United States of America.* *Provisional protection only.*

JOHNSON.
24th October 1855.

2380. JOHN HENRY JOHNSON, of 47, Lincoln's Inn Fields, in the County of Middlesex, and of Glasgow, North Britain, Gentleman, for an invention for—"Improvements in the production of dies and matrices, partly applicable to the production of printing surfaces."—*A communication from M. Beslay.* *Provisional protection only.*

MAYALL. 24th October 1855.

2381. JOHN EDWIN MAYALL, of 224 and 226, Regent Street, in the County of Middlesex, Photographic artist, for an invention for—" Improvements in photography." *Letters Patent sealed.*

BUTTERWORTH. 24th October 1855.

2382. ELLIS BUTTERWORTH, of Rochdale, in the County of Lancaster, Machinist, for an invention for—" Improvements in machinery or apparatus for preparing, spinning, and doubling cotton-wool and other fibrous materials." *Stopped at fiat.*

CRICKMAY. CLOWES. 24th October 1855.

2383. CHARLES CRICKMAY, of Lambeth, in the County of Surrey, and FREDERIC JOSEPH CLOWES, of Camberwell, in the same County, for an invention for—" Improvements in the manufacture of guns, pistols, and gun stocks, and in cutting and carving wood, metals, minerals, and other materials, by machinery." *Letters Patent sealed.*

FONTAINEMOREAU. 24th October 1855.

2384. PETER ARMAND LE COMTE DE FONTAINEMOREAU, of the English and Foreign Patent Office, 4, South Street, Finsbury, London, and 39, Rue de l'Echiquier, Paris, for an invention for—" Improvements in churns."— *A communication.* *Provisional protection only.*

RASCOL. 24th October 1855.

2385. EUGENE HIPPOLYTE RASCOL, of Catherine Street, Strand, in the County of Middlesex, for an invention for—" Improvements in apparatus used in the manufacture of type and other articles for letter-press printing."—*A communication.* *Letters Patent sealed.*

ARDOUIN. 25th October 1855.

2386. ALFRED ARDOUIN, of 5, Woodland Street, East Greenwich, in the County of Kent, Shipwright and carpenter, for an invention for—" A corking and capsuling machine." *Letters Patent sealed.*

TRITTON. 25th October 1855.

2387. HENRY TRITTON, of Great Grimsby, Lincolnshire, Esquire, for an invention for—" An improved safety apparatus for the protection of persons while painting the exterior of buildings and cleaning windows, which may be used as a balcony for holding flowers." *Letters Patent sealed.*

JOHNSON. 25th October 1855.

2388. EDWARD DANIEL JOHNSON, of Wilmington Square, in the County of Middlesex, Watch manufacturer, for an invention for—" Improved apparatus for tuning stringed instruments." *Provisional protection only.*

PLATT. WHITEHEAD. 25th October 1855.

2389. JAMES PLATT, of Oldham, in the County of Lancaster, Mechanical Engineer, and JOHN WHITEHEAD, of the same place, Foreman, for an invention for —" Improvements in machinery or apparatus for preparing clay for the manufacture of bricks." *Letters Patent sealed.*

ROBINSON. 25th October 1855.

2390. JOSEPH ROBINSON, of Aldersgate Street, Watch maker, in the employ of William Mott, of 36, Cheapside, London, for an invention for—" Certain improvements in winding clocks." *Letters Patent sealed.*

RICHARDS. 25th October 1855.

2391. JOHN ANDREW RICHARDS, of 10, Tyers Gateway, Bermondsey Street, in the County of Surrey, for an invention for—" Improvements in producing the hard grain on leather." *Letters Patent sealed.*

SHARP. FURNIVAL. 26th October 1855.

2392. THOMAS BEATT SHARP, of the City of Manchester, Engineer, and RICHARD FURNIVAL, of the same place, Foreman, for an invention for—" Certain improvements in machinery for drilling, grooving, and slotting."—*Letters Patent sealed.*

PINCHES. 26th October 1855.

2393. JOHN PINCHES, of Oxenden Street, Haymarket, in the County of Middlesex, Die sinker, for an invention for—" Improvements in the construction of dies or stamps for marking papers, linen, or other substances." *Letters Patent sealed.*

CALVERT. 26th October 1855.

2394. FREDERICK CRACE CALVERT, of the City of Manchester, in the County of Lancaster, Professor of Chemistry, for an invention for—" Improvements in the treatment of copper slags, scoriæ, or cinders, so as to obtain the iron which they contain." *Letters Patent sealed; no specification filed.*

PUGH. 26th October 1855.

2395. EDWIN PUGH, of Chartham, in the County of Kent, for an invention for —" Safety alarum and signal apparatus." *Letters Patent sealed.*

DE KLEINSORGEN. 27th October 1855.

2396. JOSEPH CHARLES FREDERICK BARON DE KLEINSORGEN, of No. 3, Sidmouth Street, in the County of Middlesex, for an invention for—"An improved variation and azimuth compass." *Letters Patent sealed.*

STARK. 27th October 1855.

2397. EDWARD STARK, of Monkton, in the Isle of Thanet, Plumber and Glazier, for an invention for—"Improvements in pens for writing." *Letters Patent sealed.*

WYATT. 27th October 1855.

2398. HENRY WYATT, of 58, Pall Mall, London, in the County of Middlesex, for an invention for—"A peculiar apparatus for more rapidly and perfectly manœuvring or steering steam ships of war or of commerce, which is entitled, The Transpulsor." *Letters Patent sealed.*

O'REGAN. 27th October 1855.

2399. SIMON O'REGAN, of Liverpool, in the County Palatine of Lancaster, Engineer, for an invention for—"Improvements in marine engine boilers and other boilers and their furnaces." *Letters Patent sealed.*

STIRLING. 27th October 1855.

2400. JOHN DAVIE MORRIES STIRLING, of Black Grange, Clackmannan, North Britain, for an invention for—"Improvements in the manufacture of cast steel tubes and cylinders, applicable especially in the manufacture of cannon, mortars, and other guns, also steam and other cylinders." *Letters Patent sealed.*

ASHTON. 27th October 1855.

2401. JOHN ASHTON, of Oldham, Lancashire, for an invention for—"Improvements in certain parts of machinery known as 'self actors' (employed for spinning and doubling cotton and other fibrous materials) for more effectually crossing the yarn during the shaping or building of the 'cops' than heretofore." *Provisional protection only.*

GEYELIN. 27th October 1855.

2402. GEORGE GEYELING, of Melville Terrace, Torriano Avenue, Camden Road, in the County of Middlesex, Civil Engineer, for an invention for—"An improved construction of perambulator." *Stopped at fiat.*

WOOD. 27th October 1855.

2403. PETER CRANKE WOOD, of Guildford Street East, in the County of Middlesex, Mineral Surveyor, for an invention for—"Improved machinery for preparing or scutching flax and other analogous fibrous substances."—*A communication.* *Letters Patent sealed.*

HANDS. 27th October 1855.

2404. JOSEPH HANDS, of Duke Street, Grosvenor Square, in the County of Middlesex, M.R.C.S., for an invention for—"Improvements in preserving animal and vegetable substances for food." *Letters Patent sealed.*

TOMLINSON. JOB. 27th October 1855.

2405. EDWARD TOMLINSON, of Barns Cray, Crayford, in the County of Kent, and ALFRED MORTIMER JOB, of Islington, in the County of Middlesex, Waterproofers, for an invention for—"Improvements in waterproofing skins of animals." *Letters Patent sealed.*

SPEED. 27th October 1855.

2406. JOHN JAMES SPEED, Jr., of the City of Detroit, State of Michigan, United States of America, for an invention for—"Improvements in car and carriage springs." *Letters Patent sealed.*

ABEL. 27th October 1855.

2407. ALFRED ABEL, of Spring Street, Sussex Gardens, Hyde Park, Dentist, for an invention for—"Improvements in stopping, filling, or plugging teeth, and in instruments to be used therefor." *Provisional protection only.*

RILEY. 29th October 1855.

2408. GEORGE RILEY, of No. 12, Portland Place North, Clapham Road, in the County of Surrey, for an invention for—"An improved roller mill for grinding malt." *Letters Patent sealed.*

TEMPERTON. 29th October 1855.

2409. THOMAS ATO TEMPERTON, of the City of Manchester, Factor, for an invention for—"Certain improvements in shells and rockets, and other projectiles of a like nature." *Provisional protection only.*

WHITWORTH. 29th October 1855.

2410. JOSEPH WHITWORTH, of the City of Manchester, in the County of Lancaster, Engineer, for an invention for—"Improvements in artillery and fire-arms." *Letters Patent sealed.*

KENNARD. 29th October 1855.

2411. JOHN KENNARD, of 32, Little Queen Street, Holborn, in the County of Middlesex, for an invention for—"An improvement in the manufacture of children's and invalids' carriages." *Provisional protection only.*

ROUDIÈRE.
29th October 1855.

2412. LÉON ROUDIÈRE, of Paris, in the Empire of France, for an invention for—"An improvement in boots for cavalry." *Provisional protection only.*

VILLEROUX.
29th October 1855.

2413. GERMAIN JEAN PAUL MARIE VILLEROUX, of Paris, in the Empire of France, for an invention for—"Certain improvements in the manufacturing of soap." *Letters Patent sealed.*

HARTLEY.
29th October 1855.

2414. WILLIAM HARTLEY, of Bury, in the County of Lancaster, Engineer, for an invention for—"Improvements in safety valves." *Letters Patent sealed.*

JOHNSON.
29th October 1855.

2415. JOHN HENRY JOHNSON, of 47, Lincoln's Inn Fields, in the County of Middlesex, and of Glasgow, North Britain, Gentleman, for an invention for—"Improvements in regulating the transmission of motive-power."—*A communication from Francis Theophile Moison, of Mouy, in the Empire of France, Mechanician.* *Provisional protection only.*

FONTAINEMOREAU.
29th October 1855.

2416. PETER ARMAND LE COMTE DE FONTAINEMOREAU, of the English and Foreign Patent Office, 4, South Street, Finsbury, London, and 39, Rue de l'Echiquier, Paris, for an invention for—"Improvements in breaks for railway carriages."—*A communication.* *Stopped at fiat.*

CHAPPUIS.
30th October 1855.

2417. PAUL EMILE CHAPPUIS, of 69, Fleet Street, and 10, St. Mary Axe, City of London, for an invention for—"Improvements in reflectors for the diffusion of artificial light." *Letters Patent sealed.*

HOLMES.
30th October 1855.

2418. WILLIAM CARTWRIGHT HOLMES, of Huddersfield, in the County of York, Gas Engineer, for an invention for—"Improvements in steam-boilers, and in the mode or method of preparing or generating steam, and in the apparatus connected therewith." *Stopped at fiat.*

NAYLOR.
30th October 1855.

2419. WILLIAM NAYLOR, of the City of Norwich, Engineer, for an invention for—"Improvements in power hammers and rivetting machines."—*Letters Patent sealed.*

BARRANS.
30th October 1855.

2420. JOSEPH BARRANS, of Deptford, in the County of Kent, Engineer, for an invention for—"Improvements in steam-boiler furnaces."—*Provisional protection only.*

HOCROFT.
FORREST.
30th October 1855.

2421. THOMAS HOCROFT, of Tividale, in the County of Stafford, Iron roller, and RICHARD FORREST, of Tipton, in the same County, Manager, for an invention for—"Improvements in the manufacture of iron rods, bars, hoops, merchant and guide iron." *Provisional protection only.*

DE LIGNAC.
30th October 1855.

2422. JULES JEAN BAPTISTE SYLVAIN MARTIN DE LIGNAC, Gentleman, of Paris, in the Empire of France, for an invention for—"An improved mode of preserving animal substances." *Letters Patent sealed.*

WALENN.
31st October 1855.

2423. WILLIAM HENRY WALENN, of 46, Regent Street, London, County of Middlesex, for an invention for—"Self acting attachment to be applied to gates."—*A communication from Henry Davis, of United States, America.* *Letters Patent sealed.*

GRIFFITHS.
31st October 1855.

2424. ROBERT GRIFFITHS, Journeyman Joiner, of Lower Broughton, Manchester, in the County of Lancaster, for an invention for—"A compound and exact measurement tap applicable to the measurement of every kind of liquor or liquid." *Letters Patent sealed.*

LAWRIE.
31st October 1855.

2425. JAMES GRAY LAWRIE, of Glasgow, Engineer, for an invention for—"Improvements in ship building to facilitate the use of water as ballast." *Letters Patent sealed.*

RAMMELL.
31st October 1855.

2426. THOMAS WEBSTER RAMMELL, of Trafalgar Square, in the County of Middlesex, for an invention for—"Improvements in preparing black lead, chalk, and other materials used for drawing, writing, and marking." *Letters Patent sealed.*

DRAYSON.
31st October 1855.

2427. HENRY EDWIN DRAYSON, of Maresfield Powder Mills, Sussex, for an invention for—"An improvement in the manufacture of gunpowder." *Letters Patent sealed.*

WOOLSTON.
31st October 1855.

2428. GEORGE F. WOOLSTON, of the City of Washington, in the United States of America, for an invention for—"Improvements in cutting and planing wood." *Provisional protection only.*

SWINBURNE. 31st October 1855.

2429. THOMAS JAMES SWINBURNE, of South Shields, in the County of Durham, Plate glass manufacturer, for an invention for—"Improvements in furnaces or apparatus used in the manufacture of glass." *Letters Patent sealed.*

GRIMWADE. 31st October 1855.

2430. THOMAS SHIPP GRIMWADE, of Harrow, in the County of Middlesex, Farmer, for an invention for—"Improvements in treating milk in order to preserve it." *Letters Patent sealed.*

FORLONG. 31st October 1855.

2431. RICHARD PANNELL FORLONG, of the City of Bristol, Manure manufacturer, for an invention for—"An improved manufacture of manure."—*Letters Patent sealed.*

NEWTON. 31st October 1855.

2432. ALFRED VINCENT NEWTON, of the Office for Patents, 66, Chancery Lane, in the County of Middlesex, Mechanical Draughtsman, for an invention for—"Improvements in the manufacture of gas."—*A communication.* *Letters Patent sealed.*

LEETCH. 1st November 1855.

2433. JAMES LEETCH, of Margaret Street, in the County of Middlesex, Gentleman, for an invention for—"An improved method of constructing apparatus for the covering of the head." *Provisional protection only.*

BEAUMONT. 1st November 1855.

2434. HENRY BARBER BEAUMONT, of No. 11, Gloucester Terrace, Hyde Park, Gentleman, for an invention for—"Improvements in portable dwellings or huts, vehicles, and boxes or packing materials for travellers." *Provisional protection only.*

LAXTON. 1st November 1855.

2435. HENRY LAXTON, of the firm of William and Henry Laxton, of 19, Arundel Street, Strand, London, Patent agent, for an invention for—"Improvements in gearing for increasing or decreasing rotary speed."—*A communication.* *Letters Patent sealed.*

COX. 1st November 1855.

2436. RICHARD REEVES COX, of Fareham, in the County of Hants, Coal Merchant, for an invention for—"Improvements in the manufacture of artificial fuel." *Letters Patent sealed.*

MILNER. 1st November 1855.

2437. GEORGE MILNER, of 13, Hollen Street, Wardour Street, Saint Ann's, Westminster, Middlesex, for an invention for—"Certain improvements in the manufacture of bedstead bottoms, part of which improvements are applicable to various other purposes for commercial and domestic use." *Letters Patent sealed.*

NICOLE. 1st November 1855.

2438. DAVID LOUIS ANTOINE NICOLE, of 16a, Chichester Place, King's Cross, for an invention for—"Improvements in apparatus for winding up watches." *Provisional protection only.*

TAYLOR. 1st November 1855.

2439. WILLIAM TAYLOR, of Haughton, near Shiffnal, in the County of Salop, Manufacturer, for an invention for—"An improvement or improvements in the manufacture of iron." *Letters Patent sealed.*

PINCHES. 1st November 1855.

2440. JOHN PINCHES, of Oxenden Street, Haymarket, in the County of Middlesex, Die sinker, for an invention for—"An improved machine or apparatus for embossing paper, metal and other substances, by hand." *Letters Patent sealed.*

BENTHAM. 1st November 1855.

2441. JOSEPH BENTHAM, of Bradford, in the County of York, Commission agent, for an invention for—"Improvements in looms for weaving." *Provisional protection only.*

BELLFORD. 1st November 1855.

2442. AUGUSTE EDOUARD LORADOUX BELLFORD, of 32, Essex Street, Strand, London, Patent agent, for an invention for—"Improvements in sewing-machines."—*A communication.* *Complete specification.* *Letters Patent sealed.*

KERR. 1st November 1855.

2443. ROBERT KERR, of Glasgow, in the County of Lanark, North Britain, Manufacturer, for an invention for—"Improvements in spinning together fibrous materials of different kinds." *Letters Patent sealed.*

NORMANDY. 1st November 1855.

2444. LEWIS NORMANDY, of 67, Judd Street, Brunswick Square, in the County of Middlesex, Civil Engineer, for an invention for—"Improvements in securing the rails in railways."—*A communication.* *Letters Patent sealed.*

WALENN. 1st November 1855.

2445. WILLIAM HENRY WALENN, of 46, Regent Street, London, County of Middlesex, for an invention for—"Certain improvements in pianofortes."—*A communication from Spencer Bartholomew Driggs, United States of America.* *Letters Patent sealed.*

TRUMAN. 1st November 1855.

2446. EDWIN THOMAS TRUMAN, of Old Burlington Street, in the County of Middlesex, Dentist, for an invention for—"Improvements in palates or holders for artificial teeth." *Letters Patent sealed.*

BAGGS. OSMAN. 2nd November 1855.

2447. ISHAM BAGGS, of Pentonville, London, Engineer, and HENRY FORFAR OSMAN, of 33, Essex Street, Strand, London, for an invention for—"Improvements in steam-engines and in engines generally which are worked either by gas, air, or vapour, and in apparatus for generating electricity for effecting parts of said improvements, and for other purposes." *Letters Patent sealed.*

COTTRILL. 2nd November 1855.

2448. JOHN COTTRILL, of Great Lever, near Bolton, in the County of Lancaster, Bleacher, for an invention for—"Improvements in machinery or apparatus for washing, scouring, dyeing, sizing, and cleaning woven fabrics and yarns." *Letters Patent sealed.*

OSBORNE. 2nd November 1855.

2449. MARK OSBORNE, of Birmingham, in the County of Warwick, Manufacturer, for an invention for—"Improvements in metallic bedsteads and other articles of metallic furniture." *Provisional protection only.*

PATTERSON. 2nd November 1855.

2450. JOHN PATTERSON, of Beverley, in the County of York, Engineer, for an invention for—"Improvements in mills or machines for grinding, crushing, cutting, and hulling or shelling various kinds of farm produce, and also for crushing and grinding minerals and other substances." *Letters Patent sealed.*

COOK. 2nd November 1855.

2451. ROBERT COOK, of Glasgow, in the County of Lanark, North Britain, Engineer, for an invention for—"Improvements in apparatus for effecting the operations of punching, rivetting, and shearing." *Letters Patent sealed.*

STAUFEN. 2nd November 1855.

2452. WERNER STAUFEN, of No. 9, Baker Street, Portman Square, in the County of Middlesex, for an invention for—"A substitute for hair and other substances commonly employed for stuffing cushions, furniture, and other articles." *Letters Patent sealed.*

HESELTINE. 2nd November 1855.

2453. SAMUEL HESELTINE, of Harwich, in the County of Essex, Gentleman, for an invention for—"Improvements in the means of ascertaining the depth of water in rivers, harbours, and at sea." *Provisional protection only.*

LEWIS. EDWARDS. 2nd November 1855.

2454. JOHN LEWIS, of Dawley Green, in the County of Salop, and JOSEPH EDWARDS, of Dawley, in the same County, Stone mason, for an invention for—"Improvements in malt crushers."—*Complete specification.* *Stopped at leaving.*

JONES. 2nd November 1855.

2455. JOHN JONES, of St. Asaph, in the County of Flint, North Wales, for an invention for—"Improvements in electric telegraphs." *Provisional protection only.*

COTTRILL. 3rd November 1855.

2456. JAMES SMITH COTTRILL, of Great Lever, near Bolton, in the County of Lancaster, Bleacher, for an invention for—"Improvements in machinery or apparatus for washing, scouring, dyeing, sizing, and cleaning woven fabrics and yarns." *Letters Patent sealed.*

HEGINBOTTOM. 3rd November 1855.

2457. JAMES HEGINBOTTOM, of Overden, in the parish of Halifax, in the West Riding of the County of York, Cotton spinner, for an invention for—"Improvements in furnaces and apparatus for generating steam, whereby the smoke will be consumed and the fuel economized." *Letters Patent sealed.*

EASTWOOD. 3rd November 1855.

2458. JAMES EASTWOOD, of Mill House, Midgley, in the West Riding of the County of York, Worsted spinner and manufacturer, for an invention for—"Certain machinery or apparatus for taking out the slubs, noils, and knots, from worsted sliver, slubbing, and roving." *Letters Patent sealed.*

PATTISON. 3rd November 1855.

2459. JAMES PATTISON, of the City of Glasgow, in the County of Lanark, Merchant, for an invention for—"Improvements in machinery for dressing and finishing woven goods and fabrics." *Letters Patent sealed.*

DAVIS. 3rd November 1855.

2460. GEORGE DAVIS, of Southampton, in the County of Southampton, Plumber, for an invention for—"Improvements in apparatus for letting in or shutting off water or other liquids." *Letters Patent sealed.*

COOPER.
3rd November 1855.

2461. THOMAS ROBERT COOPER, of White Mill Cottage, Battersea Fields, South Lambeth, in the County of Surrey, Gentleman, for an invention for—"Obtaining motion with power and velocity by purely mechanical means." . *Stopped at fiat.*

ROBERTSON.
HENRY.
3rd November 1855.

2462. WILLIAM ROBERTSON, of Oakfield Foundry, Iron founder, and JAMES HENRY, Machine maker, both of Edinburgh, Scotland, for an invention for—"Improvements in machinery for reaping and mowing corn or other agricultural produce." *Letters Patent sealed.*

BINNING.
3rd November 1855.

2463. JAMES BINNING, of Liverpool, in the County of Lancaster, Embossing-press manufacturer, for an invention for—"Improvements applicable to embossing-presses." *Provisional protection only.*

GREENSHIELDS.
3rd November 1855.

2464. JAMES GREENSHIELDS, of Glasgow, in the County of Lanark, North Britain, Manufacturer, for an invention for—"Improvements in the manufacture or production of drying oleaginous compounds." *Letters Patent sealed.*

BRIDSON.
3rd November 1855.

2465. THOMAS RIDGWAY BRIDSON, of Bolton-le-Moors, in the County of Lancaster, for an invention for—"Improvements in preparing, beetling, or finishing textile fabrics." *Letters Patent sealed.*

GARDNER.
3rd November 1855.

2466. WILLIAM GARDNER, of the firm of William Henry and Alexander Gardner, of Droylesden, in the County of Lancaster, Watch manufacturer, for an invention for—"An improved method of manufacturing watches or other time-keepers, and also improvements in the machinery, tools, or apparatus for accomplishing the same." *Letters Patent sealed.*

SHARP.
WEILD.
3rd November 1855.

2467. WILLIAM PRIOR SHARP, and WILLIAM WEILD, both of the City of Manchester, in the County of Lancaster, Silk manufacturers, for an invention for—"Improvements in the reeling or winding of cocoons, and in the manufacture of silk threads, and in machinery and apparatus for these purposes."—*Partly a communication. Letters Patent sealed.*

ALLMAN.
3rd November 1855.

2468. FENNELL ALLMAN, of Cambridge Terrace, in the County of Middlesex, Consulting Engineer, for an invention for—"Certain improvements in apparatus for the production of steam." *Letters Patent sealed.*

LLOYD.
3rd November 1855.

2469. GEORGE LLOYD, of Birmingham, in the County of Warwick, Glass manufacturer, for an invention for—"An improvement or improvements in illumination." *Provisional protection only.*

COLLIER.
3rd November 1855.

2470. GEORGE COLLIER, of Halifax, in the County of York, for an invention for—"Improvements in weaving carpets and other pile fabrics." *Letters Patent sealed.*

BROOMAN.
3rd November 1855.

2471. RICHARD ARCHIBALD BROOMAN, of 166, Fleet Street, in the City of London, Patent agent, for an invention for—"Improvements in knitting machinery."—*A communication. Provisional protection only.*

BROOMAN.
3rd November 1855.

2472. RICHARD ARCHIBALD BROOMAN, of 166, Fleet Street, in the City of London, Patent agent, for an invention for—"Improvements in generating motive-power."—*A communication. Stopped at fiat.*

GARDEN.
5th November 1855.

2473. ROBERT SPRING GARDEN, of Piccadilly, in the County of Middlesex, Army accoutrement maker, for an invention for—"Improvements in the manufacture of hats." *Letters Patent sealed.*

HICKS.
5th November 1855.

2474. JOHN HICKS, of Bedford Place, Clapham Rise, in the County of Surrey, Civil Engineer, for an invention for—"An improved gauge valve applicable to boilers of steam-engines and to other purposes." *Letters Patent sealed.*

DOBSON.
5th November 1855.

2475. ARTHUR DOBSON, of Belfast, in the County of Antrim, in Ireland, Bleacher, for an invention for—"Improvements in preparing certain unbleached linen fabrics." *Letters Patent sealed.*

HAWKES.
5th November 1855.

2476. FRANCIS HAWKES, the elder, Surveyor, of West Street, in the parish of Saint Lawrence, Reading, in the County of Berks, for an invention for—"Improvements in the construction and arrangement of water-closet apparatus." *Letters Patent sealed.*

NUTTALL. 5th November 1855.

2477. JAMES NUTTALL, of Silver Street, in the City of London, Glove manufacturer, for an invention for—"An improved gauntlet glove and cuffed glove." *Provisional protection only.*

PAGE. 5th November 1855.

2478. HENRY CLINTON PAGE, of No. 1, Commercial Road South, Pimlico, in the County of Middlesex, Sculptor, for an invention for—"An improved method of indurating marble and stone, and of permanently fixing colours therein, when colouring matters are applied thereto for producing a variegated pattern or device on the surface thereof." *Letters Patent sealed.*

WALENN. 5th November 1855.

2479. WILLIAM HENRY WALENN, of No. 46, Regent Street, London, in the County of Middlesex, Civil Engineer, for an invention for—"An improved mode of flattening cylinder glass."—*A communication from William Penn Walter, of Philadelphia, State of Pennsylvania, United States of America. Complete specification. Letters Patent sealed.*

GUILLEMOT. 5th November 1855.

2480. MAURICE GUILLEMOT, of Paris, in the Empire of France, for an invention for—"Certain improvements in stopping horses." *Provisional protection only.*

BURRIDGE. 5th November 1855.

2481. GEORGE BURRIDGE, of Great Portland Street, in the County of Middlesex, Architect, for an invention for—"Improvements in the preparation of glass for ornamental purposes." *Letters Patent sealed.*

M'GREGOR. 5th November 1855.

2482. PETER M'GREGOR, of the Town and County of Dumbarton, North Britain, Joiner, for an invention for—"Improvements in water-closets."—*Letters Patent sealed.*

LOCKE. 5th November 1855.

2483. GEORGE BARING LOCKE, of Notting Hill, Kensington, in the County of Middlesex, Railway Clerk, for an invention for—"Apparatus, apparatuses, or mechanism for placing detonating or fog signals on the rails of railways to be exploded thereon, and for removing the same therefrom whenever required." *Letters Patent sealed.*

THOMAS. 5th November 1855.

2484. THOMAS THOMAS, the younger, of Bristol, Soap manufacturer, for an invention for—"Improvements in the manufacture of soap." *Letters Patent sealed.*

NEWTON. 5th November 1855.

2485. ALFRED VINCENT NEWTON, of the Office for Patents, 66, Chancery Lane, in the County of Middlesex, Mechanical Draughtsman, for an invention for—"Improved apparatus for cooling and drying flour."—*A communication. Letters Patent sealed.*

DEVAUX. 5th November 1855.

2486. ALEXANDER CHARLES LOUIS DEVAUX, of King William Street, in the City of London, Merchant, for an invention for—"Improvements in the construction and the fitting up of granaries." *Letters Patent sealed.*

BROOMAN. 5th November 1855.

2487. RICHARD ARCHIBALD BROOMAN, of 166, Fleet Street, in the City of London, Patent agent, for an invention for—"Improvements in fire-arms."—*A communication. Letters Patent sealed.*

JESSOP. 6th November 1855.

2488. JOSEPH JESSOP, of Lascelles Hall, near Huddersfield, in the County of York, Manufacturing Chemist, for an invention for—"Improvements in the construction of furnaces and boilers." *Letters Patent sealed.*

DANCHELL. 6th November 1855.

2489. FREDERIC LUDEWIG HAHN DANCHELL, of No. 4, Arthur Terrace, Caledonian Road, Islington, in the County of Middlesex, Civil Engineer, for an invention for—"Certain improvements in apparatus for ascertaining the pressure of steam, air, water, or any other fluid or liquid." *Letters Patent sealed.*

GOOSE. 6th November 1855.

2490. RICHARD GOOSE, of Birmingham, in the County of Warwick, Manufacturer, for an invention for—"Improvements in the manufacture of cut nails." *Letters Patent sealed.*

SCHLOSS. 6th November 1855.

2491. JOSEPH SCHLOSS, of Wellington Chambers, Cannon Street West, London, County of Middlesex, for an invention for—"A new mounting for travelling-bags." *Letters Patent sealed.*

THRELFALL. HIGSON. 6th November 1855.

2492. RICHARD THRELFALL, of Preston, in the County of Lancaster, Cotton spinner, and JOHN HIGSON, of the same place, Manager, for an invention for—"Improvements in machinery or apparatus used in preparing or sizing and dressing yarns for weaving." *Letters Patent sealed.*

LISTER.
6th November 1855.

2493. SAMUEL CUNLIFFE LISTER, of Manningham, near Bradford, York, for an invention for—"Improvements in weaving pile fabrics." *Letters Patent sealed.*

DUGDALE.
6th November 1855.

2494. ANTHONY DUGDALE, of Rue Ponthieu, Paris, in the Empire of France, Engineer, for an invention for—"Improvements in the construction of locomotive engines, applicable in part to marine and stationary engines." *Provisional protection only.*

JEFFREYS.
6th November 1855.

2495. EDWARD JEFFREYS, of Shrewsbury, Engineer, for an invention for—"An improvement in the construction of furnaces." *Letters Patent sealed.*

COTSELL.
7th November 1855.

2496. GEORGE COTSELL, of Brompton, in the County of Kent, for an invention for—"An improved gutter and kerb for roads and streets." *Letters Patent sealed.*

HANSON.
7th November 1855.

2497. CHARLES HANSON, of Pimlico, in the County of Middlesex, Gun-smith, for an invention for—"Improvements in fire-arms." *Letters Patent sealed.*

HART.
7th November 1855.

2498. CHARLES HART, of Wantage, in the County of Berks, Agricultural Engineer, for an invention for—"Improvements in thrashing and dressing machines." *Letters Patent sealed; no specification filed.*

HALEY.
7th November 1855.

2499. JOSEPH HALEY, of the City of Manchester, in the County of Lancaster, Engineer, for an invention for—"Improvements in the buffers and spring draw bars of waggons or other railway vehicles, and in the application of the same." *Letters Patent sealed.*

SCHOLEFIELD.
7th November 1855.

2500. FREDERICK SCHOLEFIELD, of the City of Manchester, in the County of Lancaster, Machinist, for an invention for—"Improvements in machinery or apparatus for cutting paper, cardboard, and similar materials." *Letters Patent sealed.*

CRAIG.
7th November 1855.

2501. WILLIAM GRINDLEY CRAIG, of Gorton, near Manchester, in the County of Lancaster, Engineer, for an invention for—"Improvements in bearing, buffing, and draw springs applicable to the rolling stock of railways and other vehicles." *Stopped at fiat.*

KENWORTHY.
7th November 1855.

2502. WILLIAM KENWORTHY, of Blackburn, in the County of Lancaster, Manufacturer, for an invention for—"Certain improvements in steam-engine valves, and in the mode of working the same." *Letters Patent sealed.*

DAVIS.
7th November 1855.

2503. WILLIAM DAVIS, of Northampton Place, Old Kent Road, in the County of Surrey, for an invention for—"Improvements in the construction and arrangement of furnaces and furnace bars for the better combustion of smoke and prevention of loss of heat by radiation." *Letters Patent sealed.*

ADVIELLE.
7th November 1855.

2504. LOUIS BENOIT ADVIELLE, of Paris, Merchant, for an invention for—"An improved process for silvering metallic articles." *Letters Patent sealed.*

JOHNSON.
7th November 1855.

2505. WILLIAM JOHNSON, of 47, Lincoln's Inn Fields, in the County of Middlesex, and of Glasgow, in the County of Lanark, North Britain, Civil Engineer, for an invention for—"Improvements in the manufacture and application of prussiates and other colouring matters."—*A communication.* *Letters Patent sealed.*

WAKEFIELD.
7th November 1855.

2506. JOHN WAKEFIELD, of Inchicore works, in the County of Dublin, Engineer, for an invention for—"Improvements in machinery for working the slides and steam valves of engines driven by steam or other elastic fluid." *Letters Patent sealed.*

DRAY.
7th November 1855.

2507. WILLIAM DRAY, of Swan Lane, in the City of London, Agricultural implement manufacturer, for an invention for—"Improvements in apparatus for heating, baking, and drying." *Provisional protection only.*

POUILLET.
7th November 1855.

2508. CHARLES MARIE POUILLET, Civil Engineer, of Paris, in the French Empire, for an invention for—"Certain improvements in railways." *Letters Patent sealed.*

LUND.
BAIN.
7th November 1855.

2509. WILLIAM LUND, of Fleet Street, in the City of London, Manufacturer, and ALEXANDER BAIN, of Paddington, in the County of Middlesex, Engineer, for an invention for—"Improvements in pencil-cases." *Letters Patent sealed.*

GODDING.
7th November 1855.

2510. THOMAS GODDING, of Ipswich, in the County of Suffolk, Stay-maker, for an invention for—"Improvements in the fastening for stays, corsets, and bands."
Letters Patent sealed.

BROWNE.
7th November 1855.

2511. CHARLES ALLEN BROWNE, of the State of Massachusetts, of the United States of America, for an invention for—"A machine for manufacturing bricks."—*A communication.* *Letters Patent sealed.*

BETJEMANN.
7th November 1855.

2512. HENRY JOHN BETJEMANN, of New Oxford Street, in the County of Middlesex, for an invention for—"Improvements in expanding or extending tables."—*Partly a communication.* *Letters Patent sealed.*

BOUSFIELD.
7th November 1855.

2513. GEORGE TOMLINSON BOUSFIELD, of Sussex Place, Loughborough Road, Brixton, in the County of Surrey, for an invention for—"Improvements in wrought iron shafts for steam boats and other purposes where great strength is required."—*A communication from Otis Tufts, of Boston, United States of America.*
Letters Patent sealed.

SIEMENS.
7th November 1855.

2514. CHARLES WILLIAM SIEMENS, of the Adelphi, for an invention for—"Improvements in evaporating brine and other liquids, and in distillation."
Provisional protection only.

BURGIN.
7th November 1855.

2515. THOMAS BURGIN, of Great Winchester Street, in the City of London, Upholsterer, for an invention for—"An improved construction of ledger hand-rest."
Stopped at fiat.

CARTER.
8th November 1855.

2516. WILLIAM CARTER, of Ludgate Street, in the City of London, Stay manufacturer, for an invention for—"An improved construction of safety pocket."—*A communication.* *Stopped at first reference.*

PAGE.
8th November 1855.

2517. CHARLES PAGE, of Ware, in the County of Herts, for an invention for—"An improved construction of railway signal apparatus."—*Provisional protection only.*

GASTÉ.
8th November 1855.

2518. LOUIS GASTÉ, of 58, Paradis Poissonière, Paris, for an invention for—"Improvements in binding account and other books." *Provisional protection only.*

WHIPPLE.
8th November 1855.

2519. CULLEN WHIPPLE, of the United States of America, but now residing at Manchester, for an invention for—"Improvements in machinery for preparing and combing fibrous materials."—*Complete specification.* *Letters Patent sealed.*

OLIVE.
OLIVE.
9th November 1855.

2520. JOHN OLIVE, and WILLIAM OLIVE, both of Woolfold, near Bury, in the County of Lancaster, Railway carriage builders, for an invention for—"Improvements in the manufacture of wheels for railway and other purposes." *Letters Patent sealed.*

RAYWOOD.
9th November 1855.

2521. JOHN RAYWOOD, Engineer, of Wentworth, in the County of York, for an invention for—"An improved rolling, dibbling, sowing, and harrowing machine for wheat and other agricultural produce." *Letters Patent sealed.*

GOODMAN.
WEBSTER.
9th November 1855.

2522. GEORGE BARRY GOODMAN, of No. 21, York Buildings, in the parish of Marylebone, and the County of Middlesex, and GEORGE ALFRED WEBSTER, of 21, York Buildings, in the parish and County aforesaid, Gentlemen, for an invention for—"Improvements in apparatus for reflecting the back, front, and sides of the figure and head in a mirror or toilette glass, at one view." *Provisional protection only.*

FLETCHER.
9th November 1855.

2523. HENRY FLETCHER, of the City of Manchester, in the County of Lancaster, Engineer, for an invention for—"Improvements in the manufacture of nuts, bolts, and other similar articles, and in the machinery or apparatus for making the same."
Letters Patent sealed.

BRAMWELL.
CRAWFORD.
9th November 1855.

2524. JAMES BRAMWELL, of Royal Exchange Buildings, in the City of London, Merchant, and JOHN CRAWFORD, of the Town and County of Newcastle-upon-Tyne, Engineer, for an invention for—"Improvements in ordnance."
Provisional protection only.

WALENN.
9th November 1855.

2525. WILLIAM HENRY WALENN, of No. 46, Regent Street, London, in the County of Middlesex, Civil Engineer, for an invention for—"Certain new and useful improvements in looms for weaving seamless bags and other open double fabrics of a similar character."—*A communication from George Copeland, of Lewiston, in the United States of America.* *Letters Patent sealed.*

HAMPTON. 9th November 1855.

2526. CHARLES JOSEPH HAMPTON, of Llynrivale, in the parish of Llangynwyd, and County of Glamorgan, Manager of iron works, for an invention for—"Improvements in the manufacture of iron." *Letters Patent sealed.*

PRITCHARD. 9th November 1855.

2527. THOMAS PRITCHARD, of Walsall, Engineer, for an invention for—"Improvements in manufacturing welded iron tubes." *Provisional protection only.*

PIGGOTT. 10th November 1855.

2528. WILLIAM PETER PIGGOTT, of 523, Oxford Street, in the County of Middlesex, Medical Galvanist, for an invention for—"Improvements in galvanic, electric, and electro-magnetic apparatus, and in the mode of applying the same as a curative and remedial agent." *Stopped at fiat.*

BENTLEY. 10th November 1855.

2529. WILLIAM HENRY BENTLEY, of Bedford, in the County of Bedford, Engineer, for an invention for—"Improved cannon, guns, and other fire-arms and appendages thereto, and in the capsules, cartridges, and projectiles for the same and other fire-arms." *Letters Patent sealed.*

SCOTT. 10th November 1855.

2530. JOSEPH SCOTT, of the City of Glasgow, in Scotland, Glass merchant, for an invention for—"Improvements in corking bottles, jars, and other receptacles." *Letters Patent sealed.*

ESKELL. 10th November 1855.

2531. LOUIS ESKELL, of No. 22, Cockspur Street, Pall Mall, in the County of Middlesex, Surgeon Dentist, for an invention for—"A new enamel for filling or stopping decayed teeth." *Provisional protection only.*

NEWTON. 10th November 1855.

2532. ALFRED VINCENT NEWTON, of the Office for Patents, 66, Chancery Lane, in the County of Middlesex, Mechanical Draughtsman, for an invention for—"Improvements in transmitting fac-simile copies of writings and drawings, by means of electric currents."—*A communication from Giovanni Caselli, of Florence.* *Letters Patent sealed.*

GREEN. GREEN. 10th November 1855.

2533. EPHRAIM GREEN, and JACOB GREEN, of West Bromwich, in the County of Stafford, Iron founders, for an invention for—"Improvements in malt crushers."—*Complete specification.* *Stopped at leaving.*

WICKENS. 10th November 1855.

2534. HENRY WICKENS, of No. 4, Tokenhouse Yard, Bank, in the City of London, for an invention for—"Improvements in locomotive steam-engines and in apparatus in connection therewith, parts of which improvements are respectively applicable to other steam-engines and purposes." *Letters Patent sealed.*

CROSLEY. 12th November 1855.

2535. WILLIAM CROSLEY, of No. 16, Westbourne Park, in the County of Middlesex, and 103, Southwark Bridge Road, in the County of Surrey, Gas meter manufacturer, for an invention for—"Improvements in gas meters." *Letters Patent sealed.*

BOUILLOTTE. 12th November 1855.

2536. JULES CÉSAR ALEXANDRE BOUILLOTTE, of Paris, in the Empire of France, for an invention for—"An improved letter copying press." *Letters Patent sealed.*

MARGUERITTE. 12th November 1855.

2537. LOUIS JOSEPH FREDERIC MARGUERITTE, Chemist, of Paris, in the Empire of France, for an invention for—"Certain improvements in the manufacture of vitreous products." *Letters Patent sealed.*

HALL. 12th November 1855.

2538. WILLIAM KEMBLE HALL, of 36, Cannon Street, London, Engineer, for an invention for—"The prevention of steam-boiler explosions."—*Letters Patent sealed.*

HALL. 12th November 1855.

2539. WILLIAM KEMBLE HALL, of 36, Cannon Street, London, Engineer, for an invention for—"Improvements in boilers for generating steam."—*A communication.* *Provisional protection only.*

COOKE. 12th November 1855.

2540. GEORGE COOKE, of Kersley, in the County of Lancaster, Spindle maker, for an invention for—"Improvements in flyers used in roving and slubbing frames." *Letters Patent sealed.*

HITT. 12th November 1855.

2541. THOMAS HITT, of Tavistock Street, in the City of Westminster, Gentleman, for an invention for—"A new method of obtaining power for propelling vessels, and certain new propelling machinery." *Letters Patent sealed*

BORLAND. 12th November 1855.

2542. JOHN YUIL BORLAND, of the City of Manchester, in the County of Lancaster, for an invention for—"Improvements in spinning, and machinery for preparing and spinning fibrous materials." *Letters Patent sealed.*

ASTON. HOPKINSON. 12th November 1855.

2543. WILLIAM HENRY ASTON, and SAMUEL HOPKINSON, of Zetland Mill, Huddersfield, for an invention for—"Improvements in steam-boiler furnaces, and apparatus employed for supplying water to steam-boilers."—*Provisional protection only.*

KIDD. 12th November 1855.

2544. JOSHUA KIDD, of No. 75, Newgate Street, London, for an invention for—"Improvements in machinery and apparatus for sewing or stitching and ornamenting cloth or other fabrics." *Provisional protection only.*

BARCLAY. 12th November 1855.

2545. ANDREW BARCLAY, of Kilmarnock, in the County of Ayr, North Britain, Engineer, for an invention for—"Improvements in indicating the pressure of steam and other fluids, which improvements are also applicable to governors and other regulating apparatus." *Stopped at fiat.*

JOHNSON. 12th November 1855.

2546. JOHN HENRY JOHNSON, of 47, Lincoln's Inn Fields, in the County of Middlesex, and of Glasgow, North Britain, Gentleman, for an invention for—"Improvements in casting metals."—*A communication from Jackson Brothers, Petin, Gaudet and Company, of Rive de Gier, in the Empire of France, Engineers.*
Letters Patent sealed.

JOHNSON. 12th November 1855.

2547. JOHN HENRY JOHNSON, of 47, Lincoln's Inn Fields, in the County of Middlesex, and of Glasgow, North Britain, Gentleman, for an invention for—"Improvements in the manufacture or preparation of hard india-rubber, and in the application thereof to the construction of parts of textile and other machinery."—*A communication from Henri Victor Wacrenier, of Paris, in the Empire of France.*
Provisional protection only.

THORNTON. THORNTON. 12th November 1855.

2548. WILLIAM CARR THORNTON, of Cleckheaton, in the County of York, Machine maker, and BENJAMIN THORNTON, of the same place, Machine maker, for an invention for—"Improvements in machinery or apparatus for preparing and spinning wool, which improvements are also applicable to washing and wringing machines for the same material." *Provisional protection only.*

HENSON. PALMER. 12th November 1855.

2549. WILLIAM HENSON, of Bryan Street, Caledonian Road, in the County of Middlesex, Engineer, and HENRY OSCAR PALMER, of Castle Street, East Street, Marylebone, in the same County, Surveyor, for an invention for—"Improved apparatus for propelling vessels." *Provisional protection only.*

TEMPEST. TOMLINSON. HAMPSON. HAMPSON. 13th November 1855.

2550. ROBERT TEMPEST, and JAMES TOMLINSON, Machinists, and RICHARD HAMPSON, and JOHN HAMPSON, Spinners and Manufacturers, all of Rochdale, in the County of Lancaster, for an invention for—"Certain improvements in looms for weaving, which improvements are applicable to working the valves of steam-engines."
Provisional protection only.

WILSON. 13th November 1855.

2551. FISCHER ALEXANDER WILSON, of Adelphi Chambers, London, Gentleman, for an invention for—"Improvements in engines, machinery, and apparatus for exhausting, forcing, and lifting, for propelling on land and water."—*Letters Patent sealed.*

HOMAN. 13th November 1855.

2552. JULIUS HOMAN, of Milk Street, Cheapside, in the City of London, Manufacturing Outfitter, for an invention for—"Improvements in machinery for cutting up woven and other fabrics." *Letters Patent sealed.*

WILKINSON. WILKINSON. 13th November 1855.

2553. JOHN WILKINSON, the elder, and JOHN WILKINSON, the younger, both of Leeds, in the County of York, Felted Cloth and Carpet manufacturers, for an invention for—"Improvements in communicating a shape or configuration to felted cloths and other manufactured fabrics." *Letters Patent sealed.*

WEBB. WEBB. CATSTREE. 13th November 1855.

2554. WILLIAM WEBB, and JOHN WEBB, Junior, of Birmingham, in the County of Warwick, Builders, and JAMES CATSTREE, of the same place, Brass founder, for an invention for—"Improvements in attaching door knobs to spindles."
Letters Patent sealed.

MAWSON. 13th November 1855.

2555. JOHN MAWSON, of Newcastle-upon-Tyne, in the County of Northumberland, Chemist, for an invention for—"Improvements in cameras for taking photographic pictures." ***Provisional protection only.***

ESKELL.
13th November 1855.

2556. FREDERICK ABRAHAM ESKELL, of Manchester, in the County of Lancaster, Dentist, for an invention for—"An improvement in plates for attaching artificial teeth." *Provisional protection only.*

MURDOCH.
13th November 1855.

2557. ROBERT MURDOCH, of Cran Hill, Glasgow, in the County of Lanark, North Britain, Surveyor, for an invention for—"Improvements in agricultural apparatus for sowing seeds and depositing manure." *Letters Patent sealed.*

FOSTER.
13th November 1855.

2558. WILLIAM FOSTER, of Black Dike Mills, near Bradford, in the County of York, Spinner and Manufacturer, for an invention for—"Improvements in machinery or apparatus for drying wool and other fibrous materials." *Letters Patent sealed.*

TOLHAUSEN.
14th November 1855.

2559. ALEXANDRE TOLHAUSEN, of No. 7, Duke Street, Adelphi, London, in the County of Middlesex, Sworn Interpreter at the Imperial Court of Paris, for an invention for—"Certain improvements in producing ice."—*A communication from Louis Joseph Frederic Margueritte, of Paris, in the Empire of France.*
Provisional protection only.

LAXTON.
14th November 1855.

2560. HENRY LAXTON, of the firm of William and Henry Laxton, of the Office for British and Foreign Patents, No. 19, Arundel Street, Strand, London, Architect and Civil Engineer, for an invention for—"Improvements in fire-arms."—*A communication from Benjamin F. Joslyn, of Worcester, Massachusetts, United States.*
Letters Patent sealed.

BURROWS.
14th November 1855.

2561. JAMES BURROWS, of the Haigh Foundry, near Wigan, in the County of Lancaster, Engineer, for an invention for—"An improved apparatus for winding coals or other minerals from mines, which said apparatus is also applicable for other similar purposes, and for machinery required for forming or constructing such improved apparatus." *Letters Patent sealed.*

SKINNER.
14th November 1855.

2562. THOMAS SKINNER, of Sheffield, in the County of York, Silver Plater, for an invention for—"Improvements in producing figures or ornaments upon the surfaces of metals." *Letters Patent sealed.*

BARNES.
14th November 1855.

2563. WILLIAM BARNES, of 2, Royal Exchange Buildings, in the City of London, for an invention for—"An improvement in connecting and supporting the ends of the rails of railways." *Letters Patent sealed.*

DU MOTAY.
14th November 1855.

2564. CYPRIEN MARIE TESSIÉ DU MOTAY, of Paris, for an invention for—"Improvements in the manufacture of lubricating materials."
Provisional protection only.

ROBINSON.
14th November 1855.

2565. JOSEPH ROBINSON, of Denton Mills, Carlisle, for an invention for—"Improvements in machinery for drying wheat and other grain." *Letters Patent sealed.*

DU MOTAY.
14th November 1855.

2566. CYPRIEN MARIE TESSIÉ DU MOTAY, of Paris, for an invention for—"Improvements in the treatment of fatty and oily matters." *Letters Patent sealed.*

GOODYEAR.
14th November 1855.

2567. CHARLES GOODYEAR, of 42, Avenue Gabrielle, Paris, for an invention for—"Improvements in shoes and boots when india-rubber is used."—*Letters Patent sealed.*

BOUSFIELD.
14th November 1855.

2568. GEORGE TOMLINSON BOUSFIELD, of Sussex Place, Loughborough Road, Brixton, in the County of Surrey, for an invention for—"An improved safety coal-hole cover."—*A communication.* *Letters Patent sealed.*

JAQUES.
14th November 1855.

2569. FRANK JAQUES, of Droylsden, in the County of Lancaster, Silk Dyer, for an invention for—"The use and method of preparation of a new material to be used in the process of dyeing silk." *Provisional protection only.*

COX.
14th November 1855.

2570. EDMOND GODEFROID COX, Manufacturer, of Lille, Town in the French Empire, for an invention for—"Certain improvements in picking or cleaning cotton-wool and other filamentous substances." *Provisional protection only.*

NEWTON.
14th November 1855.

2571. ALFRED VINCENT NEWTON, of the Office for Patents, 66, Chancery Lane in the County of Middlesex, Mechanical Draughtsman, for an invention for—"An improved manufacture of electrotype printing surfaces."—*A communication.*
Letters Patent sealed.

NEWTON. 14th November 1855.

2572. ALFRED VINCENT NEWTON, of the Office for Patents, 66, Chancery Lane, in the County of Middlesex, Mechanical Draughtsman, for an invention for—"Improvements in the construction of locks."—*A communication.* *Letters Patent sealed.*

MÖLLER. 14th November 1855.

2573. JOHANNES MÖLLER, of 3, Maynard Place, Hornsey, in the County of Middlesex, Esquire, for an invention for—"Producing a transparent photographic picture on ivory without injuring the nature of the ivory, so as to be able to finish the picture with colours like other miniatures." *Provisional protection only.*

PITMAN. 15th November 1855.

2574. JOHN TALBOT PITMAN, of the American and European Patent Offices, 67, Gracechurch Street, in the City of London, for an invention for—"Improvements in the construction of iron beams and girders, and in machinery for making the same."—*A communication.* *Provisional protection only.*

DUNCKER. 15th November 1855.

2575. FRANZ DUNCKER, of Berlin, in the Kingdom of Prussia, but now of 4, King William Street, Strand, for an invention for—"A new instrument for electric telegraphs, called 'despatch distributor,' which will permit despatches of various contents being communicated at the same time to one or more stations by means of one or two line wires only."—*A communication from Mr. A. Bernstein, of Berlin.* *Letters Patent sealed.*

HINKS. 15th November 1855.

2576. JOSEPH LESTER HINKS, of Birmingham, in the County of Warwick, Manufacturer, for an invention for—"An improvement or improvements in brushes." *Provisional protection only.*

LISTER. 15th November 1855.

2577. GEORGE LISTER, of Leamington, in the County of Warwick, for an invention for—"A cooling apparatus to be used in brewing." *Provisional protection only.*

LEA. 15th November 1855.

2578. WILLIAM LEA, of the firm of William and John Lea, of Wolverhampton, in the County of Stafford, Manufacturer, for an invention for—"An improvement or improvements in taps or cocks." *Letters Patent sealed.*

JOHNSON. 15th November 1855.

2579. JOHN HENRY JOHNSON, of 47, Lincoln's Inn Fields, in the County of Middlesex, and of Glasgow, North Britain, Gentleman, for an invention for—"Improvements in carding-engines for carding cotton and other fibrous materials."—*A communication from George Wellman, of Lowell, in the United States of America.* *Stopped at fiat.*

MORRISON. 15th November 1855.

2580. DUNCAN MORRISON, of Bordesley Works, Birmingham, for an invention for—"An improvement in the manufacture of articles with internal screws, when cast iron, malleable cast iron, or cast brass is employed." *Letters Patent sealed.*

BOUSFIELD. 15th November 1855.

2581. GEORGE TOMLINSON BOUSFIELD, of Sussex Place, Loughborough Road, Brixton, in the County of Surrey, for an invention for—"Improvements in breech loading fire-arms."—*A communication.* *Letters Patent sealed.*

CRUM. PAUL. 16th November 1855.

2582. CHARLES CRUM, and CHARLES PAUL, of Hudson, in the County of Columbia, and State of New York, for an invention for—"Process for making bread." *Letters Patent sealed.*

BABBITT. 16th November 1855.

2583. BENJAMIN TALBOT BABBITT, of the City of New York, United States, for an invention for—"Manufacturing soap." *Provisional protection only.*

COOKE. 16th November 1855.

2584. WILLIAM COOKE, of 49, Frederick Street, Gray's Inn Road, in the County of Middlesex, Civil Engineer, for an invention for—"An improved apparatus for cleaning knives and other cutlery." *Letters Patent sealed.*

EASSIE. 16th November 1855.

2585. WILLIAM EASSIE, of the City of Gloucester, Railway Contractor, for an invention for—"Improvements in hammers." *Letters Patent sealed.*

HUDSON. 16th November 1855.

2586. THOMAS HUDSON, of Warrington, in the County of Lancaster, Whitesmith, for an invention for—"Improvements in machinery or apparatus for cutting and punching metals, paper, leather, and similar articles." *Provisional protection only.*

YATES. BIRCH. 16th November 1855.

2587. JAMES YATES, of Birmingham, in the County of Warwick, Manufacturer, and THOMAS RAWLINS BIRCH, of Birmingham aforesaid, Manufacturer, for an invention for—"An improvement or improvements in engines for raising beer and other liquids." *Letters Patent sealed.*

HINKS. DOWLER. 16th November 1855.

2588. JAMES HINKS, of Birmingham, in the County of Warwick, Manufacturer, and FREDERICK DOWLER, of Birmingham aforesaid, Machinist, for an invention for —"New or improved machinery for the manufacture of percussion caps, and for cutting out and raising articles in metal generally." *Provisional protection only.*

PEYTON. MORRISON. 16th November 1855.

2589. EDWARD PEYTON, and DUNCAN MORRISON, of Bordesley Works, Birmingham, for an invention for—"Improvements in manufacturing parts of metal bedsteads." *Provisional protection only.*

PRINCE. 16th November 1855.

2590. FREDERIC PRINCE, of No. 4, Trafalgar Square (Office for Patents), Charing Cross, in the County of Middlesex, for an invention for—"Improvements in the manufacture of cast iron." *Stopped at first reference.*

PETARD. 16th November 1855.

2591. LOUIS AUGUSTE PETARD, Draughtsman, of Paris, in the French Empire, for an invention for—"Certain improvements in manufacturing velvet and other similar fabrics." *Provisional protection only.*

HOSKING. 17th November 1855.

2592. JOHN HOSKING, of Gateshead Iron Works, in the County of Durham, Engineer, for an invention for—"Improvements in vertical direct action marine engines." *Stopped at fiat.*

DENTON. 17th November 1855.

2593. JOSEPH DENTON, of Pendleton, near Manchester, in the County of Lancaster, for an invention for—"Improvements in looms." *Letters Patent sealed.*

BALL. 17th November 1855.

2594. HENRY BALL, of Great Russell Street, Birmingham, in the County of Warwick, Gun maker, for an invention for—"An improvement in gun sights." *Provisional protection only.*

SWINBURNE. 17th November 1855.

2595. ROBERT WALTER SWINBURNE, of South Shields, in the County of Durham, Plate Glass manufacturer, for an invention for—"Improvements in furnaces used in the manufacture of glass." *Letters Patent sealed.*

SHAW. 17th November 1855.

2596. JOSEPH SHAW, of No. 22, New King Street, Hull, Yorkshire, for an invention for—"Improvements in the prevention of accidents arising from collisions on railways." *Letters Patent sealed.*

COLLIER. CROSSLEY. 17th November 1855.

2597. GEORGE COLLIER, of Halifax, and JAMES WILLIAM CROSSLEY, of Brighouse, both in the County of York, for an invention for—"Improvements in means or apparatus employed in hot pressing woven fabrics and other surfaces." *Letters Patent sealed.*

COLLIER. CROSSLEY. 17th November 1855.

2598. GEORGE COLLIER, of Halifax, and JAMES WILLIAM CROSSLEY, of Brighouse, both in the County of York, for an invention for—"Improvements in finishing fabrics and in treating yarns; part of which improvements is also applicable to producing ornamental effects upon other surfaces." *Letters Patent sealed.*

CULPIN. 19th November 1855.

2599. THOMAS CULPIN, of No. 25, Royal Hill, Greenwich, in the County of Kent, Engineer, for an invention for—"An improved apparatus for regulating the supply and discharge of fluids and gases." *Provisional protection only*

FLEETWOOD. 19th November 1855.

2600. JOHN FLEETWOOD, of Elm Grove House, Southsea, in the County of Southampton, Gentleman, for an invention for—"An improved portable apparatus for making malt, and for drying hops, corn, and other grains and seeds." *Letters Patent sealed.*

PRATT. RADCLIFFE. 19th November 1855.

2601. JOSIAH PRATT, of Bath Street, City Road, in the County of Middlesex, and THOMAS RADCLIFFE, of Shaftesbury Street, Hoxton, in the County of Middlesex, for an invention for—"Improvements in the manufacture of brushes." *Letters Patent sealed.*

SMITH. 19th November 1855.

2602. WILLIAM SMITH, of 10, Salisbury Street, Adelphi, Civil Engineer, for an invention for—"Improvements in gas regulators."—*A communication.* *Letters Patent sealed.*

SILVESTER. 19th November 1855.

2603. JOHN SILVESTER, of West Bromwich, in the County of Stafford, Engineer, for an invention for—"Improvements in steam gauges and safety valves." *Stopped at fiat.*

BROOMAN. 19th November 1855.

2604. RICHARD ARCHIBALD BROOMAN, of 166, Fleet Street, in the City of London, Patent agent, for an invention for—"Improvements in apparatus for measuring liquids, which may also be employed as a motive-power engine."—*A communication.* *Letters Patent sealed.*

M'NICOL. 19th November 1855.

2605. JOHN M'NICOL, of the City of Manchester, in the County of Lancaster, Designer, for an invention for—"Improvements in machine or cylinder printing." *Stopped at fiat.*

LOPEZ. 19th November 1855.

2606. JEANNE BARBE, V^e^ LOPEZ, 57, Rue de Bretagne, Paris, in the Empire of France, for an invention for—"An antibilious powder." *Letters Patent sealed.*

GILARDEAU. 19th November 1855.

2607. MICHEL PIERRE ALEXIS GILARDEAU, of 39, Rue de l'Echiquier, Paris, and No. 4, South Street, Finsbury, London, for an invention for—"A new motive-power." *Provisional protection only.*

PREECE. 19th November 1855.

2608. WILLIAM HENRY PREECE, of 7, Bernard Street, Primrose Hill, in the County of Middlesex, for an invention for—"Improvements in electric telegraphs." *Provisional protection only.*

SCHWARTZ. 20th November 1855.

2609. THEODORE SCHWARTZ, of the City and State of New York, United States of America, now of 67, Gracechurch Street, in the City of London, for an invention for—"Improvements in drying, heating, and melting solid and plastic bodies." *Provisional protection only.*

POOLE. 20th November 1855.

2610. JOHN POOLE, of 2, Riley Street, Chelsea, in the County of Middlesex, Engineer, for an invention for—"An improved mode of regulating the supply of steam from the boiler to the cylinder, and thereby better governing the motion or speed of steam-engines." *Letters Patent sealed; no specification filed.*

GEYELIN. 20th November 1855.

2611. GEORGE GEYELIN, Civil Engineer, of 13, Melville Terrace, Torriano Avenue, Camden Road, in the County of Middlesex, for an invention for—"Propelling vessels by means of pistons which he calls 'Anti-friction propellers'—to supersede paddle-wheels, screws, and all other contrivances at present in use."—*Provisional protection only.*

NEWTON. 20th November 1855.

2612. ALFRED VINCENT NEWTON, of the Office for Patents, 66, Chancery Lane, in the County of Middlesex, Mechanical Draughtsman, for an invention for—"Improved apparatus for dressing flour."—*A communication from Pierre Bruno Joseph Elie Cabanes, of Bordeaux, in the Empire of France.* *Letters Patent sealed.*

PULS. 20th November 1855.

2613. FRANCIS PULS, of Soho Square, in the County of Middlesex, Chemist, for an invention for—"A new electric light and heat." *Letters Patent sealed.*

HARVEY. 20th November 1855.

2614. WILLIAM HARVEY, of Mansfield, in the County of Nottingham, Mechanic in the employment of John Bradley, of Mansfield, Cotton Doubler, for an invention for—"An apparatus to be employed with reels, cylinders, or rollers, and for placing upon or taking off therefrom hanks, skeins, bands, and other articles, without removing such reels, cylinders, or rollers, from their bearings." *Letters Patent sealed.*

FONTAINEMOREAU. 20th November 1855.

2615. PETER ARMAND LE COMTE DE FONTAINEMOREAU, of No. 4, South Street, Finsbury, London, and 39, Rue de l'Echiquier, Paris, Patent agent, for an invention for—"Improvements in apparatus for preventing horses from running away."—*A communication.* *Letters Patent sealed.*

CLARK. BOWER. 20th November 1855.

2616. CHARLES FREDERICK CLARK, of the firm of Thomas and Charles Clark & Co., Ironfounders, of Wolverhampton, in the County of Stafford, and MANOAH BOWER, Gentleman, of Birmingham, in the County of Warwick, for an invention for—"Improvements in bolts and fastenings which they propose calling 'Clark & Co.'s Longitudinal wedge bolt.'" *Letters Patent sealed.*

WHITEHOUSE. 20th November 1855.

2617. EDWARD ORANGE WILDMAN WHITEHOUSE, of Brighton, in the County of Sussex, Surgeon, for an invention for—"Improvements in electro-telegraphic apparatus, parts of which are also applicable to other purposes."—*Letters Patent sealed.*

PRICE. NICHOLSON. 20th November 1855.

2618. DAVID SIMPSON PRICE, of 2, South Moulton Street, in the County of Middlesex, Consulting Chemist, and EDWARD CHAMBERS NICHOLSON, of 3, Newington Crescent, in the County of Surrey, Manufacturing Chemist, for an invention for—"Improvements in the manufacture of cast iron." *Letters Patent sealed.*

PRICE. NICHOLSON. 20th November 1855.

2619. DAVID SIMPSON PRICE, of 2, South Moulton Street, in the County of Middlesex, Consulting Chemist, and EDWARD CHAMBERS NICHOLSON, of 3, Newington Crescent, in the County of Surrey, Manufacturing Chemist, for an invention for—"Improvements in the manufacture of cast steel." *Letters Patent sealed.*

MAGGS. 20th November 1855.

2620. OLIVER MAGGS, of Bourton Foundry, Dorset, for an invention for—"Improvements in machinery for thrashing and winnowing wheat and other grain." *Letters Patent sealed.*

TOLSON. TOLSON. TOLSON. IRVING. 20th November 1855.

2621. GEORGE SENIOR TOLSON, ROBERT HENRY TOLSON, and JOSEPH SENIOR TOLSON, all of Dalton, in the parish of Kirkheaton, in the County of York, Manufacturers, and THOMAS IRVING, of Mold Green, in Dalton aforesaid, Dyer, for an invention for—"Improvements in producing metallic lustre to yarns and fabrics."—*A communication.* *Letters Patent sealed.*

DEFRIES. 20th November 1855.

2622. COLEMAN DEFRIES, of the firm of Jonas Defries and Sons, Houndsditch, for an invention for—"Improvements in the roof lamps for railway carriages." *Letters Patent sealed.*

TOLHAUSEN. 21st November 1855.

2623. ALEXANDRE TOLHAUSEN, of No. 7, Duke Street, Adelphi, London, in the County of Middlesex, Sworn Interpreter at the Imperial Court of Paris, for an invention for—"Making metallic chains."—*A communication from Edward Weissenborn, of the City of New York, United States. Complete specification.* *Letters Patent sealed.*

COOKE. 21st November 1855.

2624. WILLIAM COOKE, of 49, Frederick Street, Gray's Inn Road, in the County of Middlesex, Civil Engineer, for an invention for—"Improvements in gas and solar light reflectors." *Stopped at fiat.*

DE MARCESHEAU. 21st November 1855.

2625. ARMAND JEAN BAPTISTE LOUIS DE MARCESHEAU, of Paris, Ancient Consul Général, Chargé d'Affaires, Officier de la Légion d'Honneur, for an invention for—"Improvements calculated to increase the efficiency or working power of steam-engines." *Provisional protection only.*

FONTAINEMOREAU. 21st November 1855.

2626. PETER ARMAND LE COMTE DE FONTAINEMOREAU, of No. 4, South Street, Finsbury, London, and 39, Rue de l'Echiquier, Paris, Patent agent, for an invention for—"Improvements in treating fatty acids."—*A communication.* *Letters Patent sealed.*

MUNSLOW. WALLWORK. 21st November 1855.

2627. WILLIAM MUNSLOW, of Miles Platting, in the County of Lancaster, Moulder, and HENRY WALLWORK, of the same place, Moulder, for an invention for—"Improvements in railways." *Letters Patent sealed.*

WIMSHURST. 21st November 1855.

2628. HENRY WILLIAM WIMSHURST, of St. John's Wood, in the County of Middlesex, Gentleman, for an invention for—"Improved machinery for cutting dovetails and tenons." *Letters Patent sealed.*

TREEBY. 21st November 1855.

2629. THOMAS WRIGHT GARDENER TREEBY, of 1, Westbourne Terrace Villa, Westbourne Terrace North, Paddington, for an invention for—"Improvements in revolving fire-arms." *Provisional protection only.*

TOLHAUSEN. 22nd November 1855.

2630. ALEXANDRE TOLHAUSEN, of No. 7, Duke Street, Adelphi, London, in the County of Middlesex, Sworn Interpreter at the Imperial Court of Paris, for an invention for—"Certain improvements in bombs and other explosive projectiles whose charges are to be fired by percussion."—*A communication from Horace P. Herdman, of the City of New York, United States.* *Letters Patent sealed.*

ROBERTS. 22nd November 1855.

2631. JOHN ROBERTS, Jun', of Whitechapel Road, in the County of Middlesex, Tobacco manufacturer, for an invention for—"A machine or apparatus for cooling tobacco during the process of manufacture." *Letters Patent sealed.*

PRICE. 22nd November 1855.

2632. GEORGE PRICE, of Cleveland Safe Works, Wolverhampton, in the County of Stafford, Fire-proof safe manufacturer, for an invention for—"A box, chest, or case for the preservation of parchment deeds and documents from damage by steam, when placed inside an iron safe made fire-proof on the vapourizing principle—'Milner's Patent 1840.'" *Letters Patent sealed.*

CALVERT. SMITH. 22nd November 1855.

2633. EDMUND CALVERT, of Walton-le-Dale, in the County of Lancaster, and SIDNEY ASHTON SMITH, of the same place, Manager, for an invention for—"Certain improvements applicable to carding-engines." *Provisional protection only.*

HIBLING. 22nd November 1855.

2634. HENRY HIBLING, of Norwich, for an invention for—"Improvements in water-proof boots and shoes." *Stopped at fiat.*

KNOCKER. 22nd November 1855.

2635. GEORGE WIGZELL KNOCKER, of Bushy Ruff, Dover, in the County of Kent, Gentleman, for an invention for—"Improvements in obtaining motive-power." *Stopped at first reference.*

LOTTERI. 22nd November 1855.

2636. FREDERIC LOTTERI, of Bergamo, Lombardy, but now residing in London, for an invention for—"Obtaining fibre from the bark of trees of the Morus family or class, and the application thereof to the manufacture of paper and textile materials, and for other useful purposes." *Stopped at fiat.*

DUNLOP. 22nd November 1855.

2637. CHARLES TENNANT DUNLOP, of Glasgow, in the County of Lanark, North Britain, Chemist, for an invention for—"Improvements in the manufacture or production of artificial oxyde of manganese." *Letters Patent sealed.*

JOHNSON. 22nd November 1855.

2638. JOHN HENRY JOHNSON, of 47, Lincoln's Inn Fields, in the County of Middlesex, and of Glasgow, North Britain, Gentleman, for an invention for—"Improvements in apparatus for making aërated beverages."—*A communication.* *Provisional protection only.*

MAY. PRINCE. 22nd November 1855.

2639. CHARLES MAY, of Great George Street, Westminster, Civil Engineer, and PAUL PRINCE, of Derby, for an invention for—"Improvements in the manufacture of spikes and trenails." *Letters Patent sealed.*

TUCKEY. 23rd November 1855.

2640. THOMAS TUCKEY, of the City of Cork, Barrister at Law, for an invention for—"Modes of construction by which steam or other vapour or gas may be used as a source of motive-power for some purposes more conveniently than hitherto, and more suitably for locomotion on common roads." *Letters Patent sealed.*

LACY. 23rd November 1855.

2641. AUGUSTUS DACRE LACY, of Hall House, Knayton, near Thirsk, Yorkshire, Gentleman, for an invention for—"Machinery or apparatus for agricultural purposes to be used in combination with stationary steam power." *Letters Patent sealed.*

FISHER. 23rd November 1855.

2642. JOHN PURSLOE FISHER, of Edgbaston, near Birmingham, in the County of Warwick, for an invention for—"Certain improvements in the construction of the hammers of pianofortes." *Letters Patent sealed.*

HUTCHINSON. 23rd November 1855.

2643. JOHN HENRY HUTCHINSON, of East Retford, in the County of Nottingham, Gentleman, for an invention for—"Improved machinery for converting rectilinear motion into rotary motion." *Letters Patent sealed.*

ELLISDON. 23rd November 1855.

2644. JOSEPH ELLISDON, of Liverpool, in the County of Lancaster, Designer and Cabinet maker, for an invention for—"Improvements in 'castors' for cabinet furniture." *Letters Patent sealed.*

JOBSON. 23rd November 1855.

2645. JOHN JOBSON, of Litchurch, in the County of Derby, Ironfounder, for an invention for—"Improvements in the manufacture of railway chairs." *Letters Patent sealed.*

LISTER. WARBURTON. 23rd November 1855.

2646. SAMUEL CUNLIFFE LISTER, of Bradford, and JAMES WARBURTON, of Addingham, both in the County of York, for an invention for—"Improvements in spinning." *Letters Patent sealed.*

ELCE. HAMMOND. 24th November 1855.

2647. JOHN ELCE, of the City of Manchester, Machine maker, and GEORGE HAMMOND, of the same place, Watch maker, for an invention for—"The employment of a new material in the manufacture of wicks for moderator lamps." *Letters Patent sealed.*

CARRINGTON. 24th November 1855.

2648. SAMUEL RATCLIFFE CARRINGTON, of Stockport, in the County of Chester, Hat manufacturer, for an invention for—"Certain improvements in the manufacture of hats." *Letters Patent sealed.*

LOBSTEIN. 24th November 1855.

2649. JEAN LOBSTEIN, of Paris, 36, Rue de l'Echiquier, Mechanical Draughtsman, for an invention for—"Improvements in sewing-machines." *Letters Patent sealed.*

ROWLEY. 24th November 1855.

2650. JOHN JEPHSON ROWLEY, of Rowthorn, near Chesterfield, for an invention for—"Improvements in machinery for cleaning and cutting turnips and other roots." *Stopped at fiat.*

KNOWLES. 24th November 1855.

2651. ROBERT KNOWLES, of Chorlton-upon-Medlock, in the County of Lancaster, Mechanic, for an invention for—"Improvements in winding on in certain machines for spinning cotton and other fibrous materials."—*Provisional protection only.*

MARTIN. 24th November 1855.

2652. JULIANA MARTIN, of Soho Square, London, for an invention for—"An improved self acting incubator." *Letters Patent sealed.*

SANDERSON. 24th November 1855.

2653. CHARLES SANDERSON, of Sheffield, in the County of York, Merchant, for an invention for—"An improvement in the manufacture of iron."—*Letters Patent sealed.*

HYDE. 24th November 1855.

2654. HIRAM HYDE, of Truro, Nova Scotia, Gentleman, for an invention for—"Improvements in the manufacture of mineral oils."—*A communication.* *Letters Patent sealed.*

MARGUERITTE. 26th November 1855.

2655. LOUIS JOSEPH FRÉDÉRIC MARGUERITTE, Chemist, of Paris, in the Empire of France, for an invention for—"Improvements in precipitating certain salts." *Letters Patent sealed.*

JONQUET. 26th November 1855.

2656. DENIS JONQUET, of 63, Mina Road, Old Kent Road, Southwark, in the County of Surrey, Cutler, for an invention for—"Improvements in the blades of mechanical cutting machines, and in the blades of single or double handled cutting instruments, and in the blades of ordinary and mechanical shears and scissors, and in the handles and springs for the same." *Letters Patent sealed.*

WILKES. 26th November 1855.

2657. JOHN WILKES, of Birmingham, in the County of Warwick, Manufacturer, for an invention for—"An improvement or improvements in the manufacture of tubes of copper and alloys of copper." *Letters Patent sealed.*

HARRISON. GREAVES. 26th November 1855.

2658. ENOCH HARRISON, and HILTON GREAVES, of the City of Manchester, in the County of Lancaster, Manufacturers, for an invention for—"Improvements in the manufacture of woven fabrics." *Letters Patent sealed.*

COIGNET. 26th November 1855.

2659. FRANÇOIS COIGNET, of 90, Rue Hauteville, Paris, in the Empire of France, for an invention for—"Certain improvements in the use and preparation of plastic materials or compositions, to be used as artificial stone or as concrete or cement, for building and other purposes." *Letters Patent sealed.*

GREENWOOD. 26th November 1855.

2660. THOMAS GREENWOOD, of Leeds, in the County of York, Machine maker, for an invention for—"An improvement in the construction of carding-engines." *Stopped at fiat.*

OSBOURN. 26th November 1855.

2661. FREDERICK OSBOURN, of Aldersgate Street, in the City of London, Tailor, for an invention for—"Improved machinery for pressing, smoothing, or finishing garments or parts of garments." *Letters Patent sealed.*

DERING. 26th November 1855.

2662. GEORGE EDWARD DERING, of Lockleys, in the County of Hertford, for an invention for—"Improvements in galvanic batteries." *Letters Patent sealed.*

DE CLERVILLE. 26th November 1855.

2663. JOHN JULIUS CLERO DE CLERVILLE, of Newman Street, Oxford Street, in the County of Middlesex, for an invention for—"Improvements in preparing oil with other matters, for painting."—*A communication from Felix Abate, of Paris.* *Provisional protection only.*

CLARK. 26th November 1855.

2664. JAMES CLARK, of 25, Billiter Street, in the City of London, for an invention for—"Improvements in the chain wheels used on capstans, windlasses, and other axes." *Letters Patent sealed.*

BELL. 26th November 1855.

2665. ROBERT BELL, of 93, Glassford Street, Glasgow, for an invention for—"Improvements in the manufacture of woven fabrics when made of wool and cotton, or of wool, cotton, and silk." *Letters Patent sealed.*

ALLAN.
27th November 1855.

2666. THOMAS ALLAN, of Adelphi Terrace, in the City of Westminster, Civil Engineer, for an invention for—"Improvements in applying electricity."
Letters Patent sealed.

NEWTON.
27th November 1855.

2667. WILLIAM EDWARD NEWTON, of the Office for Patents, 66, Chancery Lane, in the County of Middlesex, Civil Engineer, for an invention for—"Improvements in breech loading fire-arms."—*A communication.* *Letters Patent sealed.*

HYDE.
27th November 1855.

2668. HIRAM HYDE, of Truro, Nova Scotia, Gentleman, for an invention for—"An improved manufacture of lubricating compound."—*A communication.*
Letters Patent sealed.

HYDE.
27th November 1855.

2669. HIRAM HYDE, of Truro, Nova Scotia, Gentleman, for an invention for—"An improved manufacture of lubricating oil."—*A communication.*
Letters Patent sealed.

TAYLER.
27th November 1855.

2670. ENOCH TAYLER, of 62, Baldwin's Gardens, Gray's Inn Lane, London, for an invention for—"Improvements in paddle-wheels for propelling vessels in water."
Letters Patent sealed.

RICE.
27th November 1855.

2671. CHARLES RICE, of the State of Massachusetts, of the United States of America, for an invention for—"A new or improved method of manufacturing boots or shoes."—*A communication from Henry G. Tyer, and John Helm, of the State of New Jersey, of the said United States.* *Letters Patent sealed.*

PEYTON.
MORRISON.
27th November 1855.

2672. EDWARD PEYTON, and DUNCAN MORRISON, of Bordesley Works, Birmingham, for an invention for—"Improvements in the construction of metallic bedsteads and other articles to sit or recline upon." *Letters Patent sealed.*

RICE.
27th November 1855.

2673. CHARLES RICE, of the State of Massachusetts, of the United States of America, for an invention for—"A new or improved process of preparing cloth so as to render it nearly if not entirely impervious to water, but not so to air, such cloth being particularly useful in the manufacture of boots and shoes, or various other articles of dress or utility."—*A communication from Henry G. Tyer, and John Helm, of the State of New Jersey, of the said United States.* *Letters Patent sealed.*

KIRBY.
27th November 1855.

2674. SAMUEL AMOS KIRBY, of Hastings Street, Leicester, for an invention for—"Improvements in open stoves and grates for rooms and apartments."—*Stopped at fiat.*

STOTT.
27th November 1855.

2675. GEORGE LOUIS STOTT, of St. George's, in the County of Gloucester, for an invention for—"Improvements in the manufacture of carbonate of soda."
Letters Patent sealed.

JOHNSON.
27th November 1855.

2676. JOHN HENRY JOHNSON, of 47, Lincoln's Inn Fields, in the County of Middlesex, and of Glasgow, North Britain, Gentleman, for an invention for—"Improvements in sheathing ships."—*A communication from Messrs Jackson Brothers, Petin, Gaudet, and Company, of Rive de Gier, in the Empire of France, Engineers.*
Letters Patent sealed.

JOHNSON.
27th November 1855.

2677. JOHN HENRY JOHNSON, of 47, Lincoln's Inn Fields, in the County of Middlesex, and of Glasgow, North Britain, Gentleman, for an invention for—"Improvements in windlasses, capstans, and other purchases, parts of which are applicable to the transmission of motive-power."—*A communication from Louis Frederic François David, of Havre, in the Empire of France, Chain Manufacturer.* *Letters Patent sealed.*

JOHNSON.
27th November 1855.

2678. JOHN HENRY JOHNSON, of 47, Lincoln's Inn Fields, in the County of Middlesex, and of Glasgow, North Britain, Gentleman, for an invention for—"Improvements in cleaning and hulling grain and seeds, and in the machinery or apparatus employed therein."—*A communication from Charles Theodore Laborey, of Paris, Mechanician.* *Provisional protection only.*

JOHNSON.
27th November 1855.

2679. JOHN HENRY JOHNSON, of 47, Lincoln's Inn Fields, in the County of Middlesex, and of Glasgow, North Britain, Gentleman, for an invention for—"Improvements in the manufacture or preparation of india-rubber and gutta-percha, and in the applications thereof."—*A communication from Henri Victor Wacrenier, of Paris, in the Empire of France.* *Letters Patent sealed.*

WARREN. 27th November 1855.

2680. THOMAS WARREN, of Glasgow, in the County of Lanark, North Britain, Glass manufacturer, for an invention for—"Improvements in the manufacture and moulding or shaping of glass." *Letters Patent sealed.*

RICHARDSON. 27th November 1855.

2681. GEORGE RICHARDSON, of Craig's Court, Charing Cross, in the County of Middlesex, Merchant and Contractor for railway plant and stores, for an invention for—"Improvements in chain cables and other chains."—*A communication.* *Stopped at fiat.*

HOLT. 28th November 1855.

2682. CHARLES HERBERT HOLT, of the City of Manchester, in the County of Lancaster, Engineer, for an invention for—"Improvements in steam-boilers, furnaces for the same, and apparatus connected therewith." *Provisional protection only.*

BARBIER. 28th November 1855.

2683. CHARLES JEAN BAPTISTE BARBIER, of Paris, in the Empire of France, for an invention for—"An improved kiln for burning or firing pottery, bricks, tiles, and other earthenware." *Letters Patent sealed.*

RICHARDSON. 28th November 1855.

2684. GEORGE RICHARDSON, of Craig's Court, Charing Cross, in the County of Middlesex, Merchant and Contractor for railway plant and stores, for an invention for—"Improvements in buffer, draw, and bearing springs for railway carriages and waggons."—*A communication.* *Letters Patent sealed.*

ROSENBERG. 28th November 1855.

2685. BENJAMIN ROSENBERG, of New Charles Street, City Road, in the County of Middlesex, Merchant, for an invention for—"Improvements in protecting metallic and other surfaces from corrosion and decay."—*A communication.* *Letters Patent sealed.*

LEE. 28th November 1855.

2686. JOSEPH LEE, of Stonall, near Walsall, in the County of Stafford, Engineer, for an invention for—"Improvements in agricultural or farmers' engines, which improvements are applicable also to locomotive engines."—*Provisional protection only.*

BROOMAN. 28th November 1855.

2687. RICHARD ARCHIBALD BROOMAN, of 166, Fleet Street, in the City of London, Patent agent, for an invention for—"Improvements in the manufacture of sand, emery, and glass papers, and in the machinery employed therein."—*A communication.* *Letters Patent sealed.*

DISTIN. 28th November 1855.

2688. WILLIAM ALFRED DISTIN, of No. 31, Cranbourn Street, Leicester Square, in the County of Middlesex, for an invention for—"Improvements in cornets and other wind musical instruments." *Letters Patent sealed.*

WOLFF. 28th November 1855.

2689. SAMUEL WOLFF, of the City of Independence, Jackson County, in the State of Missouri, and United States of America, Physician, for an invention for—"Improvements in obtaining motive-power." *Provisional protection only.*

WALKER. 28th November 1855.

2690. JAMES WALKER, of Leeds, in the County of York, Cloth Manufacturer and Merchant, for an invention for—"Improvements in the manufacture of textile fabrics." *Stopped at fiat.*

CLARKE. 28th November 1855.

2691. CHARLES CLARKE, of Farm Lane, Walham Green, Fulham, in the County of Middlesex, for an invention for—"Improvements in applying roughings to the feet of horses." *Provisional protection only.*

FORDE. 29th November 1855.

2692. ARTHUR WILLIAM FORDE, of 45, Bernard Street, Russell Square, London, for an invention for—"Registering the number of revolutions of a wheel of a locomotive engine or railway or other carriage, at any given period." *Provisional protection only.*

SYMONS. 29th November 1855.

2693. THOMAS SYMONS, of Flushing, in the County of Cornwall, for an invention for—"Improvements in the permanent ways of railways, and in the wheels rolling thereon." *Letters Patent sealed.*

IRLAM. 29th November 1855.

2694. WILLIAM IRLAM, of the Gibraltar Iron Works, Newton Heath, near the City of Manchester, Engineer, for an invention for—"Improvements in crossings for railways." *Letters Patent sealed.*

GWYNNE. 29th November 1855.

2695. JAMES EGLESON ANDERSON GWYNNE, of Essex Wharf, Essex Street, Strand, in the County of Middlesex, Engineer, for an invention for—"Improvements in instruments for indicating pressure or vacuum." *Letters Patent sealed.*

ARCHER. 29th November 1855.

2696. CHARLES MAYBURY ARCHER, Gentleman of the Press, of 3, St. James' Gardens, Haverstock Hill, Hampstead Road, County Middlesex, for an invention for —"A new material for the manufacture of paper, and for the production of textile fabrics." *Stopped at fiat.*

NEWTON. 29th November 1855.

2697. ALFRED VINCENT NEWTON, of the Office for Patents, 66, Chancery Lane, in the County of Middlesex, Mechanical Draughtsman, for an invention for—"An improved process of manufacturing hats."—*A communication.* *Letters Patent sealed.*

NORTH. 29th November 1855.

2698. GEORGE NORTH, of Lewisham Road, Greenwich, in the County of Kent, Coach Builder &c., for an invention for—"An improved portable apparatus for supporting and folding heads, tilts, coverings, and awnings of wheel carriages, marine vessels, goods, and ways." *Letters Patent sealed.*

BERGEON. 29th November 1855.

2699. PIERRE LOUIS BERGEON, Manufacturer, of Paris, in the French Empire, for an invention for—"An improved spitting-box or spittoon."—*A communication.* *Letters Patent sealed.*

RAMSBOTTOM. DICKINSON. 30th November 1855.

2700. JOHN RAMSBOTTOM, of Accrington, in the County of Lancaster, Engineer, and JOHN CHARLES DICKINSON, of Blackburn, in the same County, Machine maker, for an invention for—"Improvements in machinery or apparatus for measuring and registering water and other fluids, and obtaining motive-power from the same." *Letters Patent sealed.*

HUMPHREYS. LOUGHRY. 30th November 1855.

2701. HENRY THOMAS HUMPHREYS, of Kilmacow Mills, Waterford, Ireland, Mill Owner, and JAMES LOUGHRY, of the same place, Foreman Miller, for an invention for—"Improvements in machinery or apparatus for cleaning wheat." *Provisional protection only.*

JOHNSON. 30th November 1855.

2702. EDWARD DANIEL JOHNSON, of Wilmington Square, in the County of Middlesex, Watch manufacturer, for an invention for—"An improvement in the construction of attachable seconds watches." *Letters Patent sealed.*

DUSAUTOY. 30th November 1855.

2703. AUGUSTE DUSAUTOY, of Boulevart des Italiens, Paris, in the Empire of France, and of 46, Regent Street, Middlesex, for an invention for—"New and useful machinery for cutting cloth and other substances." *Letters Patent sealed.*

HANCOCK. 30th November 1855.

2704. RICHARD HANCOCK, of Great Polgooth Mine, in the parish of St Austell, Cornwall, for an invention for—"Cleaning and separating ores of every description when brought into a state of low pulverization." *Letters Patent sealed.*

DAVIS. 30th November 1855.

2705. EDWARD JOHN DAVIS, of 64, West Smithfield, for an invention for—"Improvements in preparing food for horses and other animals." *Letters Patent sealed.*

LISTER. 30th November 1855.

2706. SAMUEL CUNLIFFE LISTER, of Bradford, in the County of York, for an invention for—"Improvements in treating so as to re-work waste yarns of cotton, silk, flax, wool, or other fibre." *Letters Patent sealed.*

PONTIFEX. 1st December 1855.

2707. EDMUND ALFRED PONTIFEX, of Shoe Lane, in the City of London, Engineer, for an invention for—"Improvements in furnaces."—*Provisional protection only.*

WARD. 1st December 1855.

2708. WILLIAM WARD, of Warrington, in the County of Lancaster, Spinner and Manufacturer, for an invention for—"Certain improvements in looms for weaving." *Letters Patent sealed.*

NEEDHAM. KITE. 1st December 1855.

2709. WILLIAM NEEDHAM and JAMES KITE (Secundus), both of Vauxhall, in the County of Surrey, Engineers, for an invention for—"Improvements in machinery or apparatus for expressing liquids or moisture from substances." *Stopped at fiat.*

GARDNER. 1st December 1855.

2710. JOHN GARDNER, of No. 51, Mortimer Street, Cavendish Square, in the County of Middlesex, Doctor of Medicine, for an invention for—"A method of treating tea for economizing its use and transport." *Stopped at fiat.*

GREY. 1st December 1855.

2711. SIR CHARLES EDWARD GREY, residing at No. 38, Rue du Mont Thabor, in the City of Paris, and Empire of France, for—"An invention for the use of a new vegetable material, for raising the nap, and dressing woollen cloths and webs and tissues." *Letters Patent sealed.*

NAPIER. 1st December 1855.

2712. JAMES MURDOCH NAPIER, of the York Road, Lambeth, in the County of Surrey, for an invention for—"An improvement in drying small coal."
Provisional protection only.

WOODLEY. 1st December 1855.

2713. WILLIAM AUGUSTUS WOODLEY, of the Lithographic and General Printing Offices, Taunton, in the County of Somerset, for an invention for—"Improvements in the manufacture of paper bags." *Letters Patent sealed.*

HARRISON. MITCHELL. 3rd December 1855.

2714. GEORGE HARRISON, of Burnley, in the County of Lancaster, Overlooker, and WILLIAM MITCHELL, the younger, of Hoarstone Lodge, near Burnley aforesaid, Wool Stapler, for an invention for—"Improvements in machinery for roving, spinning, and winding worsted, cotton, and other fibrous materials." *Letters Patent sealed.*

ANDERSON. 3rd December 1855.

2715. DAVID ANDERSON, of Strandtown House, in the County of Down, Ireland, Merchant, for an invention for—"Improvements in machinery or apparatus for the preparation or manufacture of felt and other fibrous materials."—*Letters Patent sealed.*

MAYER. 3rd December 1855.

2716. CHRISTIAN MAYER, of the City and State of New York, United States of America, for an invention for—"Improvements in hair trigger locks for fire-arms."
Provisional protection only.

WALTON. 3rd December 1855.

2717. FREDERICK WALTON, of Wolverhampton, in the County of Stafford, Manufacturer, for an invention for—"An improvement or improvements in papier mâché trays." *Letters Patent sealed.*

RICHARDS. COOPER. 3rd December 1855.

2718. WESTLEY RICHARDS, of Birmingham, in the County of Warwick, Manufacturer, and JOSEPH ROCK COOPER, of Birmingham aforesaid, Manufacturer, for an invention for—"An improvement or improvements in breech loading fire-arms."
Letters Patent sealed.

ROWAN. 3rd December 1855.

2719. WILLIAM ROWAN, of the firm of J. Rowan and Sons, of Belfast, in the County of Antrim, Engineers, for an invention for—"Improvements in steam-engines." *Letters Patent sealed.*

ROTH. 3rd December 1855.

2720. JULES ROTH, of Mulhouse, in the French Empire, but now residing at Manchester, in the County of Lancaster, Chemist, for an invention for—"An improvement in rollers employed in spinning-machinery, and in other parts of machinery used in the treatment of fibrous materials." *Provisional protection only.*

WATT. 3rd December 1855.

2721. ALEXANDER WATT, of 83, Dean Street, Soho, Electro-Metallurgist, for an invention for—"An improvement in coating iron and steel with zinc."
Letters Patent sealed.

LEITCH. 3rd December 1855.

2722. JAMES LEITCH, Sugar Refiner, at No. 1, Ellenborough Street, in the Town of Liverpool, in the County of Lancaster, for an invention for—"Certain improvements in melting and blowing up sugars." *Provisional protection only.*

GARN. 4th December 1855.

2723. SAMUEL GARN, of Sevenhampton, in the County of Wilts, Wheelwright, for an invention for—"An improved tipping apparatus applicable to carts and other vehicles." *Letters Patent sealed.*

BRÉCHEUX. 4th December 1855.

2724. ETIENNE ANDRÉ NAPOLEON BRÉCHEUX, Manufacturer, of Paris, in the French Empire, for an invention for—"An improved axletree for carriages."
Provisional protection only.

HARTCLIFFE. 4th December 1855.

2725. WILLIAM HARTCLIFFE, of Salford, in the County of Lancaster, Machine maker, for an invention for—"Certain improvements in weighting the top rollers of machinery used in preparing and spinning cotton and other fibrous materials."
Letters Patent sealed.

FOOT. 4th December 1855.

2726. WILLIAM FOOT, of Wellington, in the County of Somerset, for an invention for—"An instrument for moving and stopping trucks and other carriages on railways."
Letters Patent sealed.

BARLING. 4th December 1855.

2727. JOSEPH BARLING, of 7, High Street, Maidstone, in the County of Kent, for an invention for—"An improvement in the manufacture of paper by the application of a root not before used for the purpose." *Letters Patent sealed.*

DAVOUST. 4th December 1855.

2728. JEAN DAVOUST, of the Hotel des Invalides, Paris, for an invention for—"Improvements in cartridges."—*A communication.* *Letters Patent sealed.*

KNIGHT.
4th December 1855.

2729. WILLIAM KNIGHT, Tailor, of St. Mary-le-bone, for an invention for—"An improved mode of cutting out or shaping materials to be employed in making over-coats or other similar articles of dress." *Provisional protection only.*

MARSH.
4th December 1855.

2730. JOHN MARSH, of Nottingham, for an invention for—"Improvements in the manufacture of looped and piled fabrics." *Letters Patent sealed.*

BULLOUGH.
5th December 1855.

2731. ADAM BULLOUGH, of Blackburn, in the County of Lancaster, Manufacturer, for an invention for—"An improved lubricator for looms." *Letters Patent sealed.*

MOFFAT.
5th December 1855.

2732. JOHN MOFFAT, of Birmingham, in the County of Warwick, Manufacturer, for an invention for—"An improvement or improvements in the manufacture of metallic spoons, forks, and ladles." *Letters Patent sealed.*

PLUNKETT.
BOWER.
5th December 1855.

2733. WILLIAM GEORGE PLUNKETT, of Belvidere Place, Dublin, Gentleman, and JOHN BOWER, of Lower Ormond Quay, Dublin, Civil Engineer, for an invention for—"The manufacture of fibres or threads for textile fabrics, and cordage, also of paper, mill-board, and other similar boards, from plants or portions of plants not hitherto used for these purposes." *Letters Patent sealed.*

NUNN.
5th December 1855.

2734. WILLIAM NUNN, of No. 7, Church Street, Hackney, Middlesex, Picture frame and Looking Glass Manufacturer, for an invention for—"An improved table, wash-stand, mirror &c. combined in one piece of furniture." *Letters Patent sealed.*

FELL.
5th December 1855.

2735. THOMAS MARA FELL, of 49, Frederick Street, Gray's Inn Road, in the County of Middlesex, Civil Engineer, for an invention for—"An improved ship's cooking and distilling apparatus, and improvements for the production of fresh water from sea or salt water." *Letters Patent sealed.*

BEATSON.
5th December 1855.

2736. WILLIAM BEATSON, of Rotherham, in the County of York, Manufacturing Chemist, for an invention for—"Improvements in treating borates of lime and magnesia, and a new composition formed therewith, suitable for glazing and other purposes for which borax has been or may be employed." *Letters Patent sealed.*

HEILMANN.
5th December 1855.

2737. CAESAR HEILMANN, of 22½, Milk Street, Cheapside, London, Engineer, for an invention for—"Improvements in grates or furnaces for steam-boilers." *Letters Patent sealed.*

SMITH.
5th December 1855.

2738. WILLIAM SMITH, of No. 82, Margaret Street, Cavendish Square, in the County of Middlesex, Engineer, for an invention for—"Improvements in apparatus for regulating the supply of air to furnaces." *Stopped at fiat.*

SMITH.
5th December 1855.

2739. WILLIAM HENRY SMITH, of Wellington Chambers, Cannon Street West, in the City of London, Merchant, for an invention for—"An improved construction of fastening applicable to gaiters, stays, and other like articles." *Letters Patent sealed.*

NEWTON.
5th December 1855.

2740. ALFRED VINCENT NEWTON, of the Office for Patents, 66, Chancery Lane, in the County of Middlesex, Mechanical Draughtsman, for an invention for—"Improvements in apparatus for dressing cloth."—*A communication from M. Nos D'Argence.* *Letters Patent sealed.*

MARLAND.
MARLAND.
6th December 1855.

2741. JONAS MARLAND, of Sun Vale Iron Works, Walsden, in the County of Lancaster, and SAMUEL MARLAND, also of Sun Vale Iron Works, Walsden, in the County of Lancaster, for an invention for—"Certain improvements in power-looms." *Letters Patent sealed.*

HAWKER.
HAWKER.
6th December 1855.

2742. CHARLES HAWKER, of Fishbourne, in the parish of Binstead, in the Isle of Wight, in the County of Southampton, Salt manufacturer, and THOMAS PARRY HAWKER, Dispenser of Medicine, War Prison, Plymouth, for an invention for—"An improved method of manufacturing cartridges." *Letters Patent sealed; no specification filed.*

WILSON.
6th December 1855.

2743. WILLIAM GEORGE WILSON, of Penton Cottage, Penton Place, Newington Butts, Zinc and Tin Plate Worker, for an invention for—"A pneumatic moderator." *Letters Patent sealed.*

MOSLEY.
6th December 1855.

2744. WILLIAM MOSLEY, of Salford, in the County of Lancaster, Bleacher, for an invention for—"Improvements in machinery or apparatus for stretching and finishing woven fabrics." *Letters Patent sealed.*

PAGET.
6th December 1855.

2745. ARTHUR PAGET, of Loughborough, in the County of Leicester, Manufacturer, for an invention for—"Improvements in machinery or apparatus for the manufacture of looped or other fabrics." *Letters Patent sealed.*

BARROW.
6th December 1855.

2746. JOHN BARROW, Junior, of the City of Manchester, in the County of Lancaster, Manufacturing Chemist, for an invention for—"An improved process of manufacturing soda and sulphuric acid." *Provisional protection only.*

POULSON.
6th December 1855.

2747. EBENEZER POULSON, of 21, Judd Street, Brunswick Square, in the County of Middlesex, Marine Artist, for an invention for—"A new constructed engine to be worked either by steam or principally by manual labour."—*Complete specification.* *Letters Patent sealed.*

DUNN.
6th December 1855.

2748. THOMAS DUNN, of Glasgow, in the County of Lanark, North Britain, Stationer, for an invention for—"Improvements in fire-arms." *Stopped at fiat.*

ROCK.
6th December 1855.

2749. JAMES ROCK, Junior, of Hastings, in the County of Sussex, Carriage Builder, for an invention for—"Improvements in the construction of tents, huts, and portable buildings." *Provisional protection only.*

CORNES.
6th December 1855.

2750. JOHN CORNES, of Swan Lane, in the City of London, Engineer, for an invention for—"An improved mangle or press, parts of which are applicable to rollers employed for pressure purposes generally." *Stopped at fiat.*

CHAFFER.
ELLIS.
6th December 1855.

2751. THOMAS CHAFFER, of Liverpool, in the County of Lancaster, Stone Merchant, and JONAH ELLIS, of the Vulcan Foundry, near Warrington, in the same County, Engineer, for an invention for—"Improvements in machinery for sawing and cutting slate, stone, coal, salt, rock, or other minerals." *Letters Patent sealed.*

NEUENSCHWANDER
6th December 1855.

2752. JOHANNES NEUENSCHWANDER, of the Canton of Bern, in Switzerland, and Proprietor of the Whey Establishment, of Harostehude, near Hamburg, for an invention for—"Certain improvements in the process of preparing what is called 'Swiss Whey' from milk." *Letters Patent sealed.*

BODMER.
6th December 1855.

2753. RUDOLPH BODMER, of 2, Thavies Inn, in the City of London, for an invention for—"An improved planimeter."—*A communication from Jacob Amsler, Professor of Mathematics, of Schaffhausen, in Switzerland.* *Letters Patent sealed.*

CRAMPTON.
6th December 1855.

2754. THOMAS RUSSELL CRAMPTON, of the Adelphi, in the County of Middlesex, Civil Engineer, for an invention for—"An improvement in furnaces, and in apparatus for supplying fuel thereto." *Letters Patent sealed.*

PERKINS.
6th December 1855.

2755. ANGIER MARCH PERKINS, of Francis Street, Gray's Inn Road, for an invention for—"Improvements in apparatus for generating steam."—*Letters Patent sealed.*

THOMAS.
TILLEY.
6th December 1855.

2756. FREDERICK SAMSON THOMAS, and WILLIAM EVANS TILLEY, of 6, Kirby Street, in the County of Middlesex, for an invention for—"Improvements in producing aluminum and its alloys, and in plating or coating metals with aluminum and alloys composed of aluminum and other metals." *Letters Patent sealed.*

PERKINS.
6th December 1855.

2757. ANGIER MARCH PERKINS, of Francis Street, Gray's Inn Road, for an invention for—"Improvements in warming buildings and apartments by hot water." *Letters Patent sealed.*

KUISTER.
7th December 1855.

2758. JEAN JOSEPH EMILIEN FRANÇOIS KUISTER, of Lyons, in the Empire of France, for an invention for—"Improvements in raw silk winding machinery." *Letters Patent sealed.*

LATTA.
7th December 1855.

2759. ANTOINE LATTA, Merchant, of Metz, in the Empire of France, for an invention for—"Preparing gutta-percha in combination with other substances, applicable to various purposes." *Provisional protection only.*

HART.
7th December 1855.

2760. HENRY HART, of No. 5, Waterloo Crescent, Dover, in the County of Kent, Gentleman, for an invention for—"A ship leakage indicator."—*A communication.* *Letters Patent sealed.*

DICK. 7th December 1855.	2761. DAVID DICK, Engineer, of Paisley, in the County of Renfrew, in Scotland, for an invention for—"Improvements in machinery to be used in finishing cloth and textile fabrics." *Provisional protection only.*
GARDNER. GARDNER. GARDNER. 7th December 1855.	2762. JAMES GARDNER, of Plaistow, in the County of Essex, Gentleman, HENRY GARDNER, of Leytonstone Road, in the same County, Gentleman, and JOHN CAREY GARDNER, of Leytonstone Road aforesaid, Gentleman, for an invention for—"Improvements in glasses as applied for the transmission of light."—*Letters Patent sealed.*
CRANSTON. 7th December 1855.	2763. HUDSON CRANSTON, of Coronation Street, Sunderland, in the County of Durham, for an invention for—"An improved method of manufacturing lozenges." *Provisional protection only.*
LENNY. 7th December 1855.	2764. CHARLES LENNY, of Croydon, in the County of Surrey, for an invention for—"Improvements in carriages." *Letters Patent sealed.*
ELLIS. 7th December 1855.	2765. WILLIAM IRLAM ELLIS, of Salford, in the County of Lancaster, Engineer, for an invention for—"Certain improvements in the slide valve or valves of steam or other motive-power engines." *Provisional protection only.*
WILLIAMS. 7th December 1855.	2766. JOHN ALLIN WILLIAMS, of Baydon, in the County of Wilts, Farmer, for an invention for—"Improvements in machinery or apparatus for cultivating land." *Letters Patent sealed.*
LEITCH. 7th December 1855.	2767. JAMES LEITCH, Sugar Refiner, of No. 1, Ellenborough Street, in the Town of Liverpool, in the County of Lancaster, for an invention for—"Improvements in melting, blowing up, and filtering sugars and other saccharine matters." *Provisional protection only.*
BESSEMER. 7th December 1855.	2768. HENRY BESSEMER, of Queen Street Place, New Cannon Street, in the City of London, for an invention for—"Improvements in the manufacture of iron." *Letters Patent sealed.*
GRAY. 7th December 1855.	2769. JOHN GRAY, of Strand Street, Liverpool, for an invention for—"Improvements in azimuth and amplitude instruments." *Provisional protection only.*
GREEN. 7th December 1855.	2770. CHARLES EDMUND GREEN, of No. 13, Blandford Street, Portman Square, in the County of Middlesex, for an invention for—"Improvements in huts, tents, and camp hospitals." *Stopped at fiat.*
VAN DEN HOUT. BROWN. 7th December 1855.	2771. HERMAN JOHN VAN DEN HOUT, Artist, and EBENEZER BROWN, Carver, both of Kentish Town, in the County of Middlesex, for an invention for—"Improvements in utilising leather shavings." *Stopped at fiat.*
HACKING. 8th December 1855.	2772. JOSEPH HACKING, of Bury, in the County of Lancaster, Machinist, for an invention for—"Improvements in machinery for supplying fuel and air to furnaces." *Letters Patent sealed.*
FONROBERT. 8th December 1855.	2773. CHARLES FRANÇOIS JULES FONROBERT, of Berlin, in the Kingdom of Prussia, for an invention for—"An artificial leech and a sucker."—*Letters Patent sealed.*
RADCLIFFE. FAVELL. 8th December 1855.	2774. JOHN RADCLIFFE, of Rotherham, in the County of York, Grocer, and THOMAS VICKERS FAVELL, of the same place, Gentleman, for an invention for—"Improvements in machinery or apparatus for cutting sugar and other substances." *Letters Patent sealed.*
NORTON. 8th December 1855.	2775. WILLIAM NORTON, of Kirkburton, in the County of York, Manufacturer, for an invention for—"Improvements in weaving pile fabrics." *Letters Patent sealed.*
TEVENDALE. 8th December 1855.	2776. ANDREW TEVENDALE, of No. 2, Wellington Buildings, Vauxhall Road, in the Town of Liverpool, in the County of Lancaster, for an invention for—"Improvements in propelling, and in the construction of steam or other vessels." *Provisional protection only.*
DEVOS. 8th December 1855.	2777. FRANÇOIS DEVOS, of 2, Rue Drouot, Paris, for an invention for—"Improvements in preparing and tanning hides and skins." *Provisional protection only.*
MACLURE. 8th December 1855	2778. ANDREW MACLURE, of 37, Walbrook, in the City of London, for an invention for—"Improvements in lithographic printing presses."—*Letters Patent sealed.*

WRIGLEY. NORCLIFFE. 10th December 1855.

2779. JOSEPH WRIGLEY, of Oldham, in the County of Lancaster, Manufacturer, and JACOB NORCLIFFE, of the same place, Overlooker, for an invention for—"Improvements in shuttles and in the method of using the same."

Provisional protection only.

HALL. 10th December 1855.

2780. JOHN HALL, the younger, of Mount Pleasant, Walmersley, near Bury, in the County of Lancaster, Spinner and Manufacturer, for an invention for—"Improvements in jacquard looms." *Letters Patent sealed.*

COCKER. 10th December 1855.

2781. JAMES COCKER, of Liverpool, in the County of Lancaster, Wire Drawer, for an invention for—"Improvements in the manufacture of wire."

Letters Patent sealed.

HEPPLESTON. HUNTER. 10th December 1855.

2782. THOMAS HEPPLESTON, of Manchester, in the County of Lancaster, Machinist, and JOHN HUNTER, of the same place, Machinist, for an invention for—"Certain improvements in machinery or apparatus for stretching and finishing yarns or threads." *Letters Patent sealed.*

JOHNSON. 10th December 1855.

2783. JOHN HENRY JOHNSON, of 47, Lincoln's Inn Fields, in the County of Middlesex, and of Glasgow, North Britain, Gentleman, for an invention for—"Improvements in the manufacture of safety paper."—*A communication from Victor Courboulay, of Place du Caire, Paris, in the Empire of France, Civil Engineer.*

Provisional protection only.

PARSONS. 10th December 1855.

2784. DAVID PARSONS, of Pensnett, near Dudley, in the County of Worcester, for an invention for—"An improved break for arresting or retarding at will the motion of locomotive and other engines and revolving machinery." *Letters Patent sealed.*

FONTAINEMOREAU. 10th December 1855.

2785. PETER ARMAND LE COMTE DE FONTAINEMOREAU, of No. 4, South Street, Finsbury, London, and 39, Rue de l'Echiquier, Paris, Patent agent, for an invention for—"Improvements in obtaining motive-power by means of heated compressed air."—*A communication.* *Letters Patent sealed.*

BROOMAN. 10th December 1855.

2786. RICHARD ARCHIBALD BROOMAN, of 166, Fleet Street, in the City of London, Patent agent, for an invention for—"Improvements in manufacturing gas from peat, and in treating hydrogen gas in order to render it illuminating."—*A communication from C. M. J. De Flers, of Paris.* *Letters Patent sealed.*

JENNINGS. 10th December 1855.

2787. JOSIAH GEORGE JENNINGS, of Great Charlotte Street, Blackfriars Road, in the County of Surrey, for an invention for—"An improvement in the arrangement of the overflow pipes of baths, wash hand basins, and other vessels."—*Letters Patent sealed.*

JENNINGS. 10th December 1855.

2788. JOSIAH GEORGE JENNINGS, of Great Charlotte Street, Blackfriars Road, in the County of Surrey, for an invention for—"Improvements in connecting earthenware rain pipes and soil pipes of water-closets, and in valve water-closets."

Letters Patent sealed.

JENNINGS. 10th December 1855.

2789. JOSIAH GEORGE JENNINGS, of Great Charlotte Street, Blackfriars Road, in the County of Surrey, for an invention for—"An improvement in the rising pipe and suction valves of pumps." *Letters Patent sealed.*

HUGHES. 11th December 1855.

2790. BERNARD HUGHES, of Rochester, New York, United States, but now of 67, Gracechurch Street, London, for an invention for—"A machine for making spokes and tool handles."—*A communication.* *Letters Patent sealed.*

HUGHES. 11th December 1855.

2791. BERNARD HUGHES, of Rochester, New York, United States, but now of 67, Gracechurch Street, London, for an invention for—"A knot-tying sewing machine."—*A communication.* *Letters Patent sealed.*

DE MALBEC. 11th December 1855.

2792. JACQUES ELIDAT DE MALBEC, of Paris, France, and of 7, Duke Street, Adelphi, London, for an invention for—"Certain improvements in water-closets."—*Complete specification.* *Letters Patent sealed.*

PRÉAUD. 11th December 1855.

2793. JEAN MARIE PRÉAUD, of Lyons, in the Empire of France, for an invention for—"Certain improvements in india-rubber springs." *Letters Patent sealed.*

TOLHAUSEN. 11th December 1855.

2794. ALEXANDRE TOLHAUSEN, of No. 7, Duke St., Adelphi, London, County of Middlesex, Sworn Interpreter at the Imperial Court of Paris, for an invention for —" Certain improvements in mariners' and land compasses."—*A communication from John Prime, Washington, United States.* *Letters Patent sealed.*

HORSLEY. 11th December 1855.

2795. JOHN HORSLEY, of Cheltenham, in the County of Gloucester, Analytical Chemist, for an invention for—" Certain means of treating quinine, and iodine, and other mineral medicines, in order to cause them to combine with cod-liver oil or any other fish oil, or with seed oil." *Letters Patent sealed.*

CLIFF. 11th December 1855.

2796. JAMES CLIFF, of Burton-on-Trent, in the County of Stafford, Engineer, for an invention for—" Improvements in or additions to furnaces."—*Letters Patent sealed.*

JOHNSON. 11th December 1855.

2797. JOHN HENRY JOHNSON, of 47, Lincoln's Inn Fields, in the County of Middlesex, and of Glasgow, North Britain, Gentleman, for an invention for—" An improved apparatus for discovering the leakage or escape of gas."—*A communication from Etienne Abram Maccaud, of Paris, in the Empire of France, Gentleman.* *Letters Patent sealed.*

LEVY. 11th December 1855.

2798. REUBEN LEVY, of Manchester, in the County of Lancaster, Manufacturing Clothier, for an invention for—" An improvement in wearing-apparel." *Letters Patent sealed.*

WHYTLAW. STEVEN. 11th December 1855.

2799. ROBERT ADAM WHYTLAW, of Glasgow, in the County of Lanark, North Britain, Manufacturer, and JAMES STEVEN, of the same place, Mechanic, for an invention for—" Improvements in weaving." *Letters Patent sealed.*

BOUËT. DOUEIN. 11th December 1855.

2800. RENÉ SIMON BOUËT, and HENRI EMILE ISIDORE DOUEIN, of Paris, Chemists, for an invention for—" Improvements in the preservation of meat and other animal substances serving for food." *Provisional protection only.*

NEWTON. 11th December 1855.

2801. ALFRED VINCENT NEWTON, of the Office for Patents, 66, Chancery Lane, in the County of Middlesex, Mechanical Draughtsman, for an invention for—" Improved machinery for manufacturing bolts."—*A communication.* *Letters Patent sealed.*

FOROT. 11th December 1855.

2802. ALEXANDRE FOROT, of Paris, for an invention for—" Improvements in parasols." *Letters Patent sealed.*

CLARKE. 11th December 1855.

2803. SAMUEL CLARKE, of Albany Street, Regent's Park, in the County of Middlesex, for an invention for—" Improvements in lanterns for affording light and for cooking." *Letters Patent sealed.*

RUDING. 11th December 1855.

2804. ROGERS RUDING, of 51, Bunhill Row, in the City of London, for an invention for—" An improvement in printing silks and other woven fabrics with gold and other metal leaf or powder." *Letters Patent sealed.*

DAVIS. DAVIS. 12th December 1855.

2805. ROBERT W. DAVIS, and DANIEL DAVIS, of Yellow Springs, in the County of Greene, and State of Ohio, for an invention for—" An improved vice." *Letters Patent sealed.*

BILLING. WHITEHEAD. 12th December 1855.

2806. MARTIN BILLING, of Birmingham, in the County of Warwick, Stationer, and WALTER GEORGE WHITEHEAD, of Birmingham aforesaid, Manufacturer, for an invention for—" A new or improved waterproof fabric or material." *Letters Patent sealed.*

BEARDSELL. 12th December 1855.

2807. ISAAC BEARDSELL, of the firm of Isaac Beardsell and Company, Huddersfield, in the County of York, Manufacturer, for an invention for—" Improvements in the finishing of mohair cloths and other textile fabrics, and in the machinery employed for that purpose." *Letters Patent sealed.*

HAY. HAY. 12th December 1855.

2808. GEORGE HERON HAY, and DAVID SYME HAY, both of Edinburgh, in the County of Midlothian, North Britain, Photographic artists, for an invention for—" Improvements in photographic pictures." *Letters Patent sealed.*

MIDGLEY. COLLIER. 12th December 1855.

2809. ROBERT MIDGLEY, of Salterlee Mill, in the parish of Halifax, and County of York, and GEORGE COLLIER, of Halifax, in the said County, for an invention for —" Improvements in preparing worsted, mohair, alpaca, cotton, and other yarns." *Letters Patent sealed.*

LEIGHTON. 12th December 1855.

2810. WILLIAM LEIGHTON, of the Town and County of Newcastle-upon-Tyne, General Broker, for an invention for—"Improvements in paddle-wheels." *Letters Patent sealed.*

HOLBEN. 12th December 1855.

2811. RICHARD HOLBEN, of Barton, Cambridgeshire, for an invention for—"Improvements in apparatus for chopping barley." *Letters Patent sealed.*

RICKETT. 12th December 1855.

2812. THOMAS RICKETT, of Stoney Stratford, in the County of Buckingham, Engineer, for an invention for—"Improvements in pressure gauges." *Letters Patent sealed.*

ROBERTS. 13th December 1855.

2813. JOHN ROBERTS, of Falmouth, Builder, for an invention for—"Improvements in machinery for moulding bricks and tiles." *Provisional protection only.*

HART. 13th December 1855.

2814. DAVID HART, of Trinity Square, in the County of Middlesex, Gentleman, for an invention for—"Improvements in signalling or communicating between parts of a railway train, and in the instruments and apparatus employed for such purpose." *Letters Patent sealed.*

POITEVIN. 13th December 1855.

2815. ALPHONSE LOUIS POITEVIN, Civil Engineer, of Paris, in the French Empire, for an invention for—"Improved photographic printing." *Letters Patent sealed.*

POITEVIN. 13th December 1855.

2816. ALPHONSE LOUIS POITEVIN, Civil Engineer, of Paris, in the French Empire, for an invention for—"Improved photographic engraving."—*Letters Patent sealed.*

MURDOCH. 13th December 1855.

2817. JAMES MURDOCH, of 7, Staple Inn, in the County of Middlesex, Patent agent, for an invention for—"A process for separating the oleine from the stearine of fatty and oleaginous bodies, and for the extraction of oil from oleaginous grains and from olives."—*A communication.* *Provisional protection only.*

SKELTON. 13th December 1855.

2818. GEORGE SKELTON, of Lambeth, in the County of Surrey, Engineer, for an invention for—"An improved projectile." *Provisional protection only.*

LITTLE. 13th December 1855.

2819. JOHN LITTLE, of Glasgow, in the County of Lanark, North Britain, Ironmonger, for an invention for—"Improvements in heating and cooking apparatus." *Stopped at fiat.*

JOHNSON. 13th December 1855.

2820. JOHN HENRY JOHNSON, of 47, Lincoln's Inn Fields, in the County of Middlesex, and of Glasgow, North Britain, Gentleman, for an invention for—"Improvements in apparatus for containing and distributing aëriform fluids under pressure."—*A communication from the Company John Cockerill, of Seraing, in the Kingdom of Belgium.* *Letters Patent sealed.*

JOHNSON. 13th December 1855.

2821. JOHN HENRY JOHNSON, of 47, Lincoln's Inn Fields, in the County of Middlesex, and of Glasgow, North Britain, Gentleman, for an invention for—"Improvements in apparatus for containing compressed air or gases, and in the application of the same to the obtainment of motive-power."—*A communication from the Company John Cockerill, of Seraing, in the Kingdom of Belgium.* *Letters Patent sealed.*

NICOLL. 13th December 1855.

2822. GEORGE HALL NICOLL, of Dundee, in the County of Forfar, North Britain, Ironmonger, for an invention for—"Improvements in fire-places or heating apparatus." *Letters Patent sealed.*

FRIEND. 14th December 1855.

2823. JOHN WALTER FRIEND, of Freemantle, Southampton, Watch and Clock maker, for an invention for—"An improved registering log and deep sea lead." *Letters Patent sealed.*

PHILIPPI. 14th December 1855.

2824. WILLIAM PHILIPPI, of 159, Regent Street, in the County of Middlesex, for an invention for—"Improvements in coating iron with tin." *Provisional protection only.*

KRUPP. 14th December 1855.

2825. ALFRED KRUPP, of Essen, in the Kingdom of Prussia, Cast steel manufacturer, for an invention for—"Improvements in railway and other wheels, and in the method of and machinery for manufacturing the same." *Letters Patent sealed.*

BOUSFIELD. 14th December 1855.

2826. GEORGE TOMLINSON BOUSFIELD, of Sussex Place, Loughborough Road, in the County of Surrey, for an invention for—"Improvements in machinery for the manufacture of cut pile fabrics."—*A communication.* *Letters Patent sealed.*

TODD.
PINKNEY.
14th December 1855.

2827. CHARLES JOHN TODD, and ROBERT PINKNEY, of the firm of Blackwood & Co., Ink manufacturers, Long Acre, in the County of Middlesex, for an invention for—"A balance pen." *Letters Patent sealed.*

WHITEHOUSE.
14th December 1855.

2828. EDWARD ORANGE WILDMAN WHITEHOUSE, of Brighton, in the County of Sussex, Surgeon, for an invention for—"Improvements in apparatus for measuring fluids." *Letters Patent sealed.*

HAWORTH.
FORREST.
14th December 1855.

2829. PETER HAWORTH, of Manchester, in the County of Lancaster, Patent leather manufacturer, and ALEXANDER FORREST, of Birmingham, in the County of Warwick, Gentleman, for an invention for—"An improvement in the manufacture of belts, bands, braces, and other similar articles of wearing-apparel."—*Letters Patent sealed.*

NEWMAN.
15th December 1855.

2830. WILLIAM HENRY NEWMAN, of 45, Cannon Street Road, London, in the County of Middlesex, Corn dealer, for an invention for—"An improved fire-lighter." *Letters Patent sealed.*

CLAYTON.
15th December 1855.

2831. LEONARD CLAYTON, of the firm of George Clayton and Brothers, of Unsworth, in the County of Lancaster, Manufacturers, for an invention for—"Improvements in machinery for dressing yarn." *Provisional protection only.*

WARREN.
15th December 1855.

2832. THOMAS WARREN, of Glasgow, in the County of Lanark, North Britain, Glass manufacturer, for an invention for—"Improvements in the manufacture and moulding or shaping of glass." *Letters Patent sealed.*

ASPINALL.
15th December 1855.

2833. JOHN ASPINALL, of Limehouse, in the County of Middlesex, Civil Engineer, for an invention for—"Improvements in machinery for curing sugar and extracting moisture therefrom, parts of which are applicable to separating liquids and moisture from substances containing the same." *Letters Patent sealed.*

HUTCHINSON.
15th December 1855.

2834. EDWARD BROWN HUTCHINSON, of Moorgate Street, in the City of London, Artist, for an invention for—"An improved apparatus for forming and cutting elliptical figures." *Letters Patent sealed.*

ROGERS.
15th December 1855.

2835. EBENEZER ROGERS, of Abercarn, in the County of Monmouth, Mining Engineer, for an invention for—"Improvements in safety doors for mines."—*Complete specification.* *Letters Patent sealed.*

COATS.
15th December 1855.

2836. GEORGE COATS, of Glasgow, in the County of Lanark, North Britain, Coal master, for an invention for—"Improvements in horse shoes and in attaching the same to the horses' feet." *Letters Patent sealed.*

WALLACE.
WALLACE.
15th December 1855.

2837. AGNES WALLACE, of Nether Place Bleach works, in the County of Renfrew, North Britain, and JOHN WALLACE, of the same place, Bleachers, for an invention for—"Improvements in bleaching, washing or cleansing textile fabrics and materials." *Letters Patent sealed.*

TWIST.
15th December 1855.

2838. SAMUEL TWIST, of Birmingham, in the County of Warwick, Cabinet maker, for an invention for—"Improvements in casters for furniture and other purposes." *Provisional protection only.*

CLAY.
15th December 1855.

2839. WILLIAM CLAY, of Liverpool, in the County of Lancaster, Iron manufacturer, for an invention for—"Improvements in the manufacture of bar iron." *Letters Patent sealed.*

STEWART.
15th December 1855.

2840. SAMUEL STEWART, of 28, Clement's Lane, in the City of London, Consulting Engineer, for an invention for—"An improved combined engine and gas exhauster, and also improvements in the valves of such exhausters." *Stopped at fiat.*

CLAY.
15th December 1855.

2841. WILLIAM CLAY, of Liverpool, in the County of Lancaster, Iron manufacturer, for an invention for—"Improvements in the manufacture of iron." *Provisional protection only.*

SALOMON.
MONTGAZAN.
DE FLERS.
15th December 1855.

2842. PAUL MARIE SALOMON, of Rue Neuve St Eustache, JACQUES LOIR MONTGAZAN, of Rue de Bondy, and CHARLES MARIE JOSEPH DE FLERS, of Rue Lafitte, all in Paris, in the Empire of France, for an invention for—"Improvements in the manufacture of gas from coals, and in the production of bituminous coke in that manufacture, and also in the apparatus connected therewith." *Letters Patent sealed.*

COTTAM. 17th December 1855.

2843. SAMUEL FLETCHER COTTAM, of the City of Manchester, Machinist, for an invention for—"Certain improvements in mules for spinning cotton and other fibrous materials." *Letters Patent sealed.*

COLLIER. CROSSLEY. CROSSLEY. 17th December 1855.

2844. GEORGE COLLIER, and JOHN CROSSLEY, both of Halifax, in the County of York, and JAMES WILLIAM CROSSLEY, of Brighouse, in the parish of Halifax, and in the same County, for an invention for—"Improvements in apparatus employed in drying and stretching woven fabrics." *Letters Patent sealed.*

BRACEGIRDLE. 17th December 1855.

2845. CHARLES BRACEGIRDLE, of Congleton, in the County of Chester, Silk manufacturer, for an invention for—"Improvements in the manufacture of bolting cloths employed in dressing flour." *Letters Patent sealed.*

STEWART. 17th December 1855.

2846. HENRY STEWART, of Baker Street, in the County of Middlesex, Gentleman, for an invention for—"A machine or apparatus for cleaning and polishing forks, spoons, and other like curved articles." *Letters Patent sealed.*

JEFFREE. 17th December 1855.

2847. JOHN LOBB JEFFREE, of Blackwall, in the County of Middlesex, Engineer, for an invention for—"Improvements in or additions to furnaces."—*Letters Patent sealed.*

EVANS. 17th December 1855.

2848. OMROD COFFEEN EVANS, Doctor of Medicine, of the City of New York, United States of America, for an invention for—"Improvements in digging machinery." *Letters Patent sealed.*

EAST. 17th December 1855.

2849. FREDERICK WILLIAM EAST, of 185, Bermondsey Street in the County of Middlesex, for an invention for—"Improvements in waterproofing and enamelling textile and other fabrics in imitation of and to be used in lieu of leather, and for other similar purposes." *Provisional protection only.*

GOLDING. 17th December 1855.

2850. GEORGE GOTTS GOLDING, at Mess" W. Cubitts & Co.'s, Gray's Inn Road, London, for an invention for—"Improvements in boilers for heating, warming, or raising steam." *Letters Patent sealed.*

SANGSTER. 17th December 1855.

2851. WILLIAM SANGSTER, of Cheapside, in the City of London, for an invention for—"Improvements in the manufacture of stays and corsets."—*Letters Patent sealed.*

LEITCH. 17th December 1855.

2852. JAMES LEITCH, Sugar refiner, at No. 1, Ellenborough Street, in the Town of Liverpool, and in the County of Lancaster, for an invention for—"Improvements in filtering sugars and other saccharine matters." *Provisional protection only.*

HEMSLEY. 17th December 1855.

2853. WILLIAM HEMSLEY, of Melbourne, in the County of Derby, for an invention for—"An improvement in the manufacture of elastic pile fabrics." *Letters Patent sealed.*

FONTAINE. 17th December 1855.

2854. JEAN JACQUES FONTAINE, of Paris, for an invention for—"Improvements in the manufacture of steel." *Provisional protection only.*

JOHNSON. 17th December 1855.

2855. JOHN HENRY JOHNSON, of 47, Lincoln's Inn Fields, in the County of Middlesex, and of Glasgow, North Britain, Gentleman, for an invention for—"Improvements in ships' tillers."—*A communication from Louis Frederic François David, of Havre, in the Empire of France, Chain manufacturer.* *Letters Patent sealed.*

SMALL. 17th December 1855.

2856. ANDREW SMALL, of Glasgow, in the County of Lanark, North Britain, Ship chandler, for an invention for—"Improvements in marine compasses and in apparatus applicable thereto." *Letters Patent sealed.*

WILKINSON. 17th December 1855.

2857. WILLIAM WILKINSON, of the Town of Nottingham, Framework knitter, for an invention for—"Improvements in machinery employed in the manufacture of looped fabrics." *Letters Patent sealed; no specification filed.*

WESSEL. BOWDEN. 18th December 1855.

2858. CHRISTIAN RUDOLPH WESSEL, of No. 25, Fitzroy Square, New Road, London, in the County of Middlesex, Gentleman, and GEORGE BOWDEN, of No. 1, Little Queen Street, High Holborn, London, in the same County, Bookbinder, for an invention for—"Joining elastic webbing into indissoluble bands." *Stopped at fiat.*

TOLHAUSEN.
18th December 1855.

2859. ALEXANDRE TOLHAUSEN, of No. 7, Duke Street, Adelphi, London, County of Middlesex, Sworn Interpreter at the Imperial Court of Paris, for an invention for—"An improved harvesting machine."—*A communication from Dewitt Clinton Henderson, and Alexander Hamilton Caryl, of Sandusky, Ohio, United States.*
Letters Patent sealed.

HUMASTON.
18th December 1855.

2860. JOHN PIERRPONT HUMASTON, of Newhaven, in the United States, Civil Engineer, for an invention for—"Improvements in instruments for composing and transmitting telegraph messages." *Letters Patent sealed.*

NICKELS.
HOBSON.
18th December 1855.

2861. CHRISTOPHER NICKELS, of the Albany Road, in the County of Surrey, and JAMES HOBSON, of Leicester, for an invention for—"Improvements in the manufacture of pile fabrics." *Letters Patent sealed.*

PRICE.
18th December 1855.

2862. DAVID LLOYD PRICE, of Beaufort, in the County of Brecknock, Electrical Engineer, for an invention for—"Improvements in electric telegraphs, and in appliances connected therewith as applied to railway trains and fixed stations."
Letters Patent sealed.

NEWTON.
18th December 1855.

2863. ALFRED VINCENT NEWTON, of the Office for Patents, 66, Chancery Lane, in the County of Middlesex, Mechanical Draughtsman, for an invention for—"An improved mode of manufacturing wrought iron cannon."—*A communication.*
Letters Patent sealed.

HYDE.
18th December 1855.

2864. HIRAM HYDE, of Truro, Nova Scotia, Gentleman, for an invention for—"An improved mode of purifying alcohol or alcoholic spirits."—*A communication.*
Letters Patent sealed.

NEWTON.
18th December 1855.

2865. ALFRED VINCENT NEWTON, of the Office for Patents, 66, Chancery Lane, in the County of Middlesex, Mechanical Draughtsman, for an invention for—"Improvements in washing-machines."—*A communication.* *Stopped at fiat.*

DAVIES.
SYERS.
HUMFREY.
18th December 1855.

2866. EDWARD DAVIES, and JOHN MILNE SYERS, both of Liverpool, in the County of Lancaster, and CHARLES HUMFREY, of Camberwell, in the County of Surrey, Merchants, for an invention for—"Improvements in distilling resinous, bituminous, fatty, and oily matters, and in the treatment of certain products therefrom."
Letters Patent sealed.

GLOVER.
18th December 1855.

2867. FREDERICK ROBERT AUGUSTUS GLOVER, of Bury Street, St James, in the County of Middlesex, Master of Arts, for an invention for—"An improved instrument or apparatus for taking angles and measuring lines, surfaces, and solids, and ascertaining the variation of the needle." *Letters Patent sealed.*

GLOVER.
18th December 1855.

2868. FREDERICK ROBERT AUGUSTUS GLOVER, of Bury Street, St James, in the County of Middlesex, Master of Arts, for an invention for—"Improvements in the construction of breakwaters, sea-walls, and other structures or foundations of structures which lie partially or entirely under water." *Letters Patent sealed.*

CARTWRIGHT.
19th December 1855.

2869. JOSEPH CARTWRIGHT, of Hyde, in the County of Chester, Millwright and Engineer, for an invention for—"Improvements in taps or valves."
Provisional protection only.

ROSS.
WILKES.
19th December 1855.

2870. GEORGE ROSS, of Birmingham, in the County of Warwick, Engineer, and THOMAS WILKES, of Birmingham aforesaid, Machinist, for an invention for—"New or improved machinery for the manufacture of bolts, rivets, spikes, screw blanks, screws, nuts for screws, and washers." *Letters Patent sealed.*

RUSTON.
19th December 1855.

2871. RICHARD RUSTON, of Birmingham, in the County of Warwick, Coach maker, for an invention for—"Improvements in the construction of anchors and appendages to be used therewith." *Letters Patent sealed.*

HADDEN.
HADDEN.
HADDEN.
HADDEN.
19th December 1855.

2872. JOHN HADDEN, HENRY HADDEN, FREDERICK JOHN HADDEN, and CHARLES STAUNTON HADDEN, of the Town of Nottingham, Hosiers and Copartners, for an invention for—"Improvements in circular frames for the manufacture of ribbed fabrics." *Letters Patent sealed.*

SANDERS.
19th December 1855.

2873. JOSIAH SANDERS, of Bristol, in the County of Somerset, Truss maker, for an invention for—"Improvements in trusses for supporting parts of the human body."
Provisional protection only.

ABRAHAM.
19th December 1855.

2874. HENRY ROBERT ABRAHAM, of 11, Howard Street, Strand, in the County of Middlesex, for an invention for—"Improvements in carriages, and in certain appurtenances and appendages which belong to those used as hospital conveyances or ambulances." *Letters Patent sealed.*

HARVEY.
19th December 1855.

2875. GEORGE HARVEY, of Charlotte Street, Portland Place, in the County of Middlesex, for an invention for—"Improvements in portfolios."—*Letters Patent sealed.*

WALKER.
20th December 1855.

2876. ROBERT WALKER, of Eccleston, near Prescott, in the County of Lancaster, Colliery Viewer, for an invention for—"Improvements in applying power to and in machinery for raising and lowering coals and other articles from and into mines." *Letters Patent sealed.*

SIEVIER.
20th December 1855.

2877. ROBERT WILLIAM SIEVIER, of Upper Holloway, in the County of Middlesex, England, but now residing temporarily at the Hotel de la Grande Bretagne, Brussels, Belgium, for an invention for—"Improvements in guns and pieces of ordnance, and the projectiles thrown from them for the purposes of war." *Provisional protection only.*

SHANKS.
20th December 1855.

2878. ANDREW SHANKS, Engineer, 6, Robert Street, Adelphi, Westminster, for an invention for—"Certain improvements in instruments for indicating pressures." *Letters Patent sealed.*

FLEMING.
20th December 1855.

2879. JAMES FLEMING, Junior, of Newlandsfields, in the County of Renfrew, North Britain, Bleacher, for an invention for—"Improvements in bleaching, washing, cleansing, and preparing textile fabrics and materials." *Letters Patent sealed.*

PORTEOUS.
20th December 1855.

2880. DUNDAS SMITH PORTEOUS, of the Town of Paisley, in the County of Renfrew, Scotland, for an invention for—"Regulating the pressure of gas, steam, water, or other fluids."—*Complete specification.* *Letters Patent sealed.*

EVANS.
20th December 1855.

2881. EVAN EVANS, of South Wales, for an invention for—"Improvements in combining and fixing railway bars." *Letters Patent sealed.*

BOUSFIELD.
20th December 1855.

2882. GEORGE TOMLINSON BOUSFIELD, of Sussex Place, Loughborough Road, Brixton, in the County of Surrey, for an invention for—"Improvements in machinery for splitting leather."—*A communication.* *Stopped at fiat.*

ANTROBUS.
20th December 1855.

2883. PHILIP ANTROBUS, of Chepstow, in the County of Monmouth, Gentleman, for an invention for—"Improvements in preserving and packing flour." *Letters Patent sealed.*

BARCROFT.
20th December 1855.

2884. JOHN BARCROFT, of Hanley, in the County of Stafford, Basket maker, for an invention for—"An improvement in the materials to be used in the manufacture of baskets and basket-work." *Letters Patent sealed.*

DEVAUX.
20th December 1855.

2885. ALEXANDER CHARLES LOUIS DEVAUX, of King William Street, in the City of London, Merchant, for an invention for—"Improved machinery for crushing and grinding vegetable and other substances." *Stopped at fiat.*

BODMER.
20th December 1855.

2886. LOUIS RUDOLPH BODMER, of 2, Thavies Inn, in the City of London, for an invention for—"Improvements in hydraulic seed crushing machines or oil presses." *Letters Patent sealed.*

KYLE.
21st December 1855.

2887. DAVID DUNNE KYLE, of Albany Street, Regent's Park, in the County of Middlesex, for an invention for—"A method of communicating motion." *Letters Patent sealed.*

SAFFROY.
21st December 1855.

2888. JEAN BAPTISTE EMILE SAFFROY, Banker, of Bordeaux, in the Empire of France, for an invention for—"An improved break for railway carriages."—*A communication.* *Letters Patent sealed.*

WATSON.
21st December 1855.

2889. JOHN WATSON, of Glasgow, in the County of Lanark, North Britain, Manufacturer, for an invention for—"Improvements in the manufacture or production of articles of ladies' dress." *Letters Patent sealed.*

MERRITT.
21st December 1855.

2890. THOMAS EDWARD MERRITT, of Maidstone, in the County of Kent, Gentleman, for an invention for—"Improvements in breech loading ordnance and fire-arms." *Provisional protection only.*

HUGHES. 21st December 1855.	**2891.** BERNARD HUGHES, of Rochester, New York, United States, but now of 67, Gracechurch Street, London, for an invention for—"A mode of mingling the vapour of bi-sulphuret of carbon and steam, and applying them as a motive-power." *Letters Patent sealed.*
TOMLINSON. 21st December 1855.	**2892.** MATTHEW TOMLINSON, of Ivy House, Culcheth, in the County of Lancaster, Manufacturer of medical plasters, for an invention for—"An improved medical plaster." *Letters Patent sealed.*
APPLETON. 21st December 1855.	**2893.** CHARLES JAMES APPLETON, of the City of Manchester, in the County of Lancaster, for an invention for—"Improvements in machinery or apparatus for knitting."—*A communication from John Pepper, of Franklin, N. H., United States of America.* *Letters Patent sealed.*
MURDOCH. 21st December 1855.	**2894.** JAMES MURDOCH, of 7, Staple Inn, in the County of Middlesex, for an invention for—"Improvements in machines or apparatus for working chain stitch embroidery."—*A communication.* *Letters Patent sealed.*
TYER. 21st December 1855.	**2895.** EDWARD TYER, of Cornhill, in the City of London, Electrical Engineer, for an invention for—"Improvements in telegraphing or communicating by means of electricity." *Letters Patent sealed.*
FRANCIS. 21st December 1855.	**2896.** HENRY FRANCIS, of 456, West Strand, in the County of Middlesex, Engineer, for an invention for—"Improvements in apparatus for cutting out parts of garments." *Letters Patent sealed.*
GLOVER. 21st December 1855.	**2897.** CHARLES GLOVER, of the City of Lincoln, Carpenter and Joiner, for an invention for—"Removing snow from a line of railways." *Letters Patent sealed.*
CURTIS. 21st December 1855.	**2898.** WILLIAM JOSEPH CURTIS, of No. 1, Sebbon Street, Islington, Civil Engineer, for an invention for—"Improvements in fog signals, and in laying the same upon the rails of railways." *Letters Patent sealed.*
GEDGE. 22nd December 1855.	**2899.** JOHN GEDGE, of No. 4, Wellington Street South, Strand, in the County of Middlesex, Patent agent, for an invention for—"Improvements in cutting and folding paper to form letters or notes and envelopes in one piece."—*A communication from Guillaume Pierre, of Clichy la Garenne, in the Empire of France.* *Letters Patent sealed.*
KENNEDY. EASTWOOD. 22nd December 1855.	**2900.** MYLES KENNEDY, of Ulverstone, in the County of Lancaster, and THOMAS EASTWOOD, of Preston, in the same County, for an invention for—"Improvements in pump buckets, which improvements are also applicable to lift pumps, air pumps, and all similar apparatus." *Letters Patent sealed.*
NEWMAN. WHITTLE. 22nd December 1855.	**2901.** JAMES NEWMAN, of Birmingham, in the County of Warwick, Manufacturer, and WILLIAM WHITTLE, of Smethwick, in the County of Stafford, Engineer, for an invention for—"Improvements in the manufacture of hooks and eyes, and in machinery to be employed in the manufacture of the hooks aforesaid." *Letters Patent sealed.*
JOHNSON. 22nd December 1855.	**2902.** JOHN HENRY JOHNSON, of 47, Lincoln's Inn Fields, in the County of Middlesex, and of Glasgow, North Britain, Gentleman, for an invention for—"Improvements in furnaces for steam-boilers and other heating purposes."—*A communication.* *Letters Patent sealed.*
STEVENSON. CRAWFORD. 22nd December 1855.	**2903.** WILLIAM STEVENSON, of Lochwinnoch, in the County of Renfrew, North Britain, Manufacturer, and WILLIAM CRAWFORD, of the same place, Wool spinner, for an invention for—"Improvements in machinery or apparatus for carding or preparing fibrous materials." *Letters Patent sealed.*
DRESSER. 22nd December 1855.	**2904.** CHRISTOPHER DRESSER, of Waterloo Cottage, Waterloo Street, Hammersmith, for an invention for—"Improvements in the mode of effecting what is called 'Nature printing.'" *Letters Patent sealed.*
ATKINS. MILLER. 22nd December 1855.	**2905.** ISAAC ATKINS, of New Basford, and Mary Gate, Nottingham, Lace manufacturer, and MARMADUKE MILLER, of Wollaton Street, Nottingham, Gas Regulator manufacturer, for an invention for—"Improvements in apparatus for measuring and regulating the flow of gas." *Letters Patent sealed; no specification filed.*

ROWCLIFFE. 22nd December 1855.

2906. EDWARD ROWCLIFFE, of 2, Gloucester Terrace West, Grove, Blackheath, for an invention for—"Improvements in the manufacture of blocks or slabs for paving and building purposes." *Letters Patent sealed.*

ZAHN. 22nd December 1855.

2907. WILLIAM HENRY ZAHN, of New York, in the United States of America, but now residing in London, for an invention for—"Improvements in windmills or wind engines." *Provisional protection only.*

DICK. 22nd December 1855.

2908. DAVID DICK, Engineer, of Paisley, in the County of Renfrew, in Scotland, for an invention for—"A new and improved regulator for gas."—*Letters Patent sealed.*

CHESTERMAN. 22nd December 1855.

2909. JAMES CHESTERMAN, of Sheffield, in the County of York, Machinist, for an invention for—"An improved spring especially applicable to the joints of knives, razors, scissors, and other like articles." *Letters Patent sealed.*

HOLDWAY. 24th December 1855.

2910. FREDERIC HOLDWAY, of No. 12, Mount Street, Grosvenor Square, in the County of Middlesex, Coach maker, for an invention for—"Improvements in carriages and various parts of the same." *Letters Patent sealed.*

GILLET-OUDIN. 24th December 1855.

2911. SYLVAIN MATHURIN GILLET-OUDIN, of Blois, in the Empire of France, for an invention for—"Improvements in making bread."—*Provisional protection only.*

COWBURN. MUIR. 24th December 1855.

2912. THOMAS COWBURN, and GEORGE WALKER MUIR, both of the City of Manchester, in the County Palatine of Lancaster, Engineers, for an invention for—"Improvements in steam-boilers, and in valves and parts connected therewith." *Letters Patent sealed.*

SYMONS. 24th December 1855.

2913. WILLIAM SYMONS, Jack maker, of Tavistock, in the County of Devon, for an invention for—"Improvements in the suspension roasting-jack." *Letters Patent sealed.*

OFFHAUS. 24th December 1855.

2914. CHRISTIAN ERNST OFFHAUS, of Newark, in the State of New Jersey, and United States of America, for an invention for—"Improvements in rotary steam-engines." *Provisional protection only.*

LEAN. THOMSON. 24th December 1855.

2915. GEORGE LEAN, of Glasgow, in the County of Lanark, North Britain, Manufacturer, and ROBERT THOMSON, of the same place, Manager, for an invention for—"Improvements in weaving." *Stopped at fiat.*

BARTON. 24th December 1855.

2916. JOHN BARTON, of Stockport, in the County of Chester, Shuttle manufacturer, for an invention for—"Improvements in shuttles or shuttle tongues." *Letters Patent sealed.*

BROOMAN. 24th December 1855.

2917. RICHARD ARCHIBALD BROOMAN, of 166, Fleet Street, in the City of London, Patent agent, for an invention for—"Improvements in treating beet root and other saccharine vegetable substances, in order to extract alcohol therefrom and at the same time render or leave the remaining parts of the vegetable fit food for cattle."—*A communication.* *Letters Patent sealed.*

TOLHAUSEN. 26th December 1855.

2918. ALEXANDRE TOLHAUSEN, of No. 7, Duke Street, Adelphi, London, County of Middlesex, Sworn Interpreter at the Imperial Court of Paris, for an invention for—"Certain improvements in railway axle-boxes."—*A communication from G. W. and T. C. Geisendorff, United States.* *Letters Patent sealed.*

TOLHAUSEN. 26th December 1855.

2919. ALEXANDRE TOLHAUSEN, of No. 7, Duke Street, Adelphi, London, County of Middlesex, Sworn Interpreter at the Imperial Court of Paris, for an invention for—"Certain improvements in double acting pumps."—*A communication from D. W. Clarks, United States.* *Letters Patent sealed.*

LEWIS. 26th December 1855.

2920. JOHN WILLIAM LEWIS, of the City of Manchester, in the County of Lancaster, Engineer, for an invention for—"An improved picker for looms." *Provisional protection only.*

HILLS. 26th December 1855.

2921. FRANK CLARKE HILLS, of the Chemical works, Deptford, for an invention for—"Improvements in economizing fuel." *Letters Patent sealed.*

SAWYER. 26th December 1855.

2922. SYLVANUS SAWYER, of the State of Massachusetts, of the United States of America, for an invention for—"An improved bomb shell."—*Letters Patent sealed.*

DUPPA. 26th December 1855.	**2923.** THOMAS DUPPA DUPPA, of Longville, in the County of Salop, for an invention for—"Improvements in generating and heating steam."—*A communication.* *Letters Patent sealed.*
M'CALLUM. 26th December 1855.	**2924.** DAVID M'CALLUM, of 3, Victoria Place, Stonehouse, in the County of Devon, for an invention for—"Improvements in electric telegraphs." *Letters Patent sealed.*
MAY. COWPER. 26th December 1855.	**2925.** CHARLES MAY, and EDWARD ALFRED COWPER, both of Great George Street, Westminster, in the County of Middlesex, for an invention for—"Improvements in combing wool and other fibrous substances, and in machinery for that purpose." *Letters Patent sealed.*
PETIT. 27th December 1855.	**2926.** SIMON PETIT, of Versailles, in the Empire of France, for an invention for—"A new or improved apparatus for buoying ships or vessels and also drawing them out of water." *Provisional protection only.*
COWPER. 27th December 1855.	**2927.** EDWARD ALFRED COWPER, of Great George Street, Westminster, in the County of Middlesex, for an invention for—"Improvements in combing wool and other fibrous substances, and in machinery for that purpose." *Letters Patent sealed.*
KRUPP. 27th December 1855.	**2928.** ALFRED KRUPP, of Essen, in the Kingdom of Prussia, Cast Steel manufacturer, for an invention for—"Certain improvements in guns and gun carriages." *Letters Patent sealed.*
DOUGLASS. 27th December 1855.	**2929.** NICHOLAS DOUGLASS, of S^{t} George's in the Fields, in the County of Middlesex, Engineer, for an invention for—"Improvements in the construction of lighthouses, beacons, piers, and other similar erections." *Letters Patent sealed.*
LADMORE. 27th December 1855.	**2930.** EDWIN LADMORE, of Birmingham, in the County of Warwick, Assistant Superintendent of Small-arms, for an invention for—"A new or improved method of securing ramrods to military fire-arms." *Stopped at fiat.*
COOK. 27th December 1855.	**2931.** JAMES EDGAR COOK, of Greenock, in the County of Renfrew, North Britain, Booking Clerk, for an invention for—"An improved composition for preserving exposed surfaces, or surfaces liable to deterioration and decay." *Letters Patent sealed.*
GRIST. 27th December 1855.	**2932.** JOHN GRIST, of Islington, in the County of Middlesex, Engineer, for an invention for—"Improvements in machinery for the manufacture of staves and parts of casks, and for forming them into casks, barrels, and other like vessels." *Letters Patent sealed.*
ROBERT. 28th December 1855.	**2933.** JEAN JULES ROBERT, Secretary of the Universal Society for the encouragement of Arts and Industry, No. 18, Portugal Street, Lincoln's Inn Fields, London, Middlesex, for an invention for—"The fabrication of torrefied beetroot to supersede chicory as used in coffee and with a great superiority." *Provisional protection only.*
ROBINSON. CUNLIFFE. COLLET. 28th December 1855.	**2934.** JOHN ROBINSON, of the firm of Sharp, Stewart, and Company, of the Atlas works, in the City of Manchester, Engineers, and RICHARD CUNLIFFE, and JOSEPH ANTHONY COLLET, of the same place, Mechanical Draughtsmen, for an invention for—"Improvements in locomotive steam-engines, and in springs for locomotive steam-engines and other purposes." *Letters Patent sealed.*
PRESTON. 28th December 1855.	**2935.** FRANCIS PRESTON, of the City of Manchester, Machinist, for an invention for—"Improvements in the construction of military small arms." *Provisional protection only.*
UTTLEY. 28th December 1855.	**2936.** THOMAS FIELDEN UTTLEY, of Mytholm Royd, in the County of York, Manager, for an invention for—"Improvements in the mode of applying fusible plugs to steam-boilers." *Letters Patent sealed.*
SALOMON. 28th December 1855.	**2937.** PAUL MARIE SALOMON, of Rue Neuve S^{t} Eustache, Paris, in the Empire of France, for an invention for—"Improvements in the manufacture of gas from peat, and in the coke resulting therefrom, and also in the apparatus connected with that manufacture." *Stopped at fiat.*

CHISHOLM.
26th December 1855.

2938. GEORGE CHISHOLM, of St John's Square, Clerkenwell, in the County of Middlesex, for an invention for—"Improvements in the manufacture of artificial manure." *Letters Patent sealed.*

ROWETT.
26th December 1855.

2939. WILLIAM ROWETT, of Liverpool, in the County of Lancaster, Merchant, for an invention for—"An improved mechanical arrangement for lifting weights, and other useful purposes." *Provisional protection only.*

BAILY.
28th December 1855.

2940. HENRY GEORGE BAILY, of the Vicarage, Swindon, in the County of Wilts, Clerk, for an invention for—"Improvements in machinery for digging and forking land." *Letters Patent sealed.*

TURNER.
28th December 1855.

2941. JOHN PEMBERTON TURNER, of Birmingham, in the County of Warwick, Manufacturer, for an invention for—"A new or improved method of shanking metallic buttons, applicable to the heading of nails and other like purposes."—*A communication.* *Stopped at fiat.*

HARROP.
BARLOW.
BOYD.
29th December 1855.

2942. LEWIS HARROP, Cotton spinner, SAMUEL BARLOW, Overlooker, and ALEXANDER BOYD, Machine maker, all of Oldham, in the County of Lancaster, for an invention for—"Certain improvements in self acting mules for spinning and doubling cotton and other fibrous materials." *Letters Patent sealed.*

REDFERN.
29th December 1855.

2943. HERBERT REDFERN, of Shelton, in the County of Stafford, for an invention for—"Improvements in skates." *Letters Patent sealed.*

FORD.
29th December 1855.

2944. ALFRED FORD, of Park Lodge, New Road, Hammersmith, in the County of Middlesex, Surgeon, for an invention for—"Preparing and dissolving in naphtha or oil of turpentine, vulcanized india-rubber, for the purpose of waterproofing and all or any of the other purposes for which the same not so prepared and dissolved is now applicable." *Provisional protection only.*

BROADBENT.
YOULE.
29th December 1855.

2945. JOHN BROADBENT, of Manchester, in the County of Lancaster, Merchant, and STANLEY PETER YOULE, of the same place, Gentleman, for an invention for—"Improvements in machinery or apparatus for cutting out the gores of umbrellas and parasols, which said improvements are also applicable to cutting out forms or shapes for other purposes." *Stopped at fiat.*

LANGE.
29th December 1855.

2946. WILLIAM LANGE, of 56, Tachbrook Street, in the County of Middlesex, Merchant, for an invention for—"Improvements in biscuit ovens."—*A communication from John Lange, of Altona, near Hamburg.* *Letters Patent sealed.*

BROWN.
29th December 1855.

2947. WILLIAM BROWN, of Glasgow, in the County of Lanark, North Britain, Merchant, for an invention for—"Improvements in cooking and culinary vessels and utensils, and in the application and conveyance of heat." *Letters Patent sealed.*

BIRCH.
29th December 1855.

2948. GEORGE ROYDS BIRCH, of Paddington, for an invention for—"A form and folding desk combined, adapted for the use of schools." *Letters Patent sealed.*

LEES.
LEES.
NEWTON.
29th December 1855.

2949. SILVESTER LEES, and EDWARD LEES, of Oldham, in the County of Lancaster, Cotton spinners, and GEORGE HENRY NEWTON, of the same place, Mechanic, for an invention for—"Certain improvements in machinery for spinning and doubling cotton and other fibrous substances." *Letters Patent sealed.*

HOLMES.
29th December 1855.

2950. THOMAS HOLMES, of Hull, for an invention for—"An improvement in the manufacture of driving straps or bands for machinery." *Letters Patent sealed.*

NEWTON.
29th December 1855.

2951. WILLIAM EDWARD NEWTON, of the Office for Patents, 66, Chancery Lane, in the County of Middlesex, Civil Engineer, for an invention for—"An improved process of tanning."—*A communication from Charles Chretien Knoderez, of Strasbourg, Leather manufacturer.* *Letters Patent sealed.*

LILLIE.
31st December 1855.

2952. Sir JOHN SCOTT LILLIE, Companion of The Most Honorable Order of the Bath, of Pall Mall, in the County of Middlesex, for an invention for—"Improvements in guns, fire-arms, and implements of war connected therewith." *Letters Patent sealed.*

COWPER. 31st December 1855.	**2953.** CHARLES COWPER, of No. 20, Southampton Buildings, Chancery Lane, in the County of Middlesex, Patent agent, for an invention for—"Improvements in the treatment of coal, and in the purification, desiccation, and agglomeration of coal, and in machinery and apparatus for such purposes."—*A communication.* *Provisional protection only.*
SALTER. 31st December 1855.	**2954.** JOSEPH SALTER, of the City of Manchester, Gentleman, for an invention for—"Improvements in apparatus for promoting the draft in chimneys, and for ventilating apartments." *Provisional protection only.*
TAYLOR. 31st December 1855.	**2955.** JAMES TAYLOR, of the firm of James Taylor and Company, of the Britannia works, Birkenhead, in the County of Chester, Engineers, for an invention for—"Improvements in apparatus for raising and lowering weights." *Stopped at fiat.*
TURNER. 31st December 1855.	**2956.** ARCHIBALD TURNER, of Leicester, Elastic web manufacturer, for an invention for—"Improvements in the manufacture of looped fabrics."—*Letters Patent sealed.*
STEVENSON. WILLIAMSON. 31st December 1855.	**2957.** JAMES COCHRAN STEVENSON, and JOHN WILLIAMSON, of South Shields, Alkali manufacturers, for an invention for—"Improvements in the manufacture of soda and alkali." *Letters Patent sealed.*
COTTAM. 31st December 1855.	**2958.** GEORGE HALLEN COTTAM, of the St Pancras Iron works, Old St Pancras Road, Engineer, for an invention for—"Improvements in applying detonating or exploding signals on the rails of railways." *Provisional protection only.*